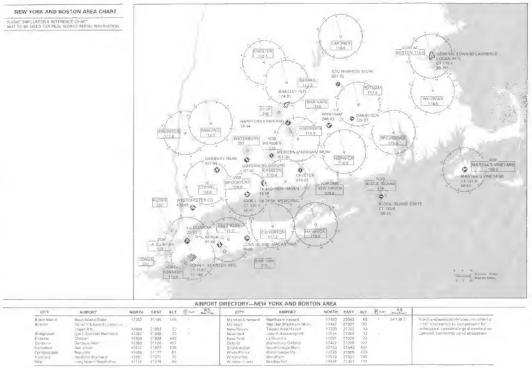
AIRPORT DIRECTORY—CHICAGO AREA				REA			CHICAGO AREA CHART
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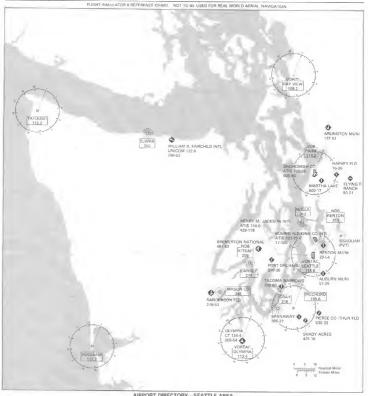
LOS ANGELES AREA CHART FUGNIT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AFRICA HAVIGATION VAN NUYS 113.1 VAN NUYS ATS 110-45 F. MONTE 219 799.30 BRACKET FLD HUGHES (PVT) 44 SANTA MONICA MENI C 32 38 CA DNIARID INTL OMONA AT65 113.15 ° 0 6 HAWTHORNE MUNI LOS ANGELES MIL ES MARY NDS 600 4 0 20 CORONA MUNI 0 TURRANCE MUNI MEADOWLAHK 109.4 JOHN WAYNE A REPORT ATIS 125 D CT 122.7 PALLBROOK COMMUNITY MERARK 705-21 0 METCHLILAN-RALOMAR SAN DIFFOUNTI-

AIRPORT DIRECTORY-LOS ANGELES AREA ARPORT MORTH ALT. Front Campbarl McCleonan Palaman 14300 Compan Musi LiMonse Elakorty Heathome Muni 5831 PERMIT MADE Occarsole Dozwoode Mun HARTI Rhormide Morn SANDWOOD INTI-DIRECTOR PTO 101 Santa Munica Muni Torrance Muni 15902 125 5811 5811 168 1113



CM-FS2 FLIGHT REFERENCE CARD - more ALLERONS i less / 3 = full 1 - - -ELEVATORS FLIGHT CONTROL YOKE THROTTLE FLEVATOR RUDOER T 10110-4 BRAKES CARR AN AT ... and I has been real transition each baset on and off MAGRETOS - got M. Lutt est M. J. rept. sen Millaren stimble 4 barth cords 5 mars Porter need need full. Minter - SRUTTEM started which become flood ordered PLANT TARRESTS AND ADDRESS. state right took COMPARIO -- use C. Increase toph-digities for decreases obitC co4C mercens loss digital RAY RASSO -- edit S. 1. naturi SARY 1 for Suspense y changes circle 2 meteors fletch 2 early, early merenative during ADP 1975 MALE STATE OF EXPRESS IN ARREST STATE OF THE STA 9785 085 - 491 V 1 autout VOR 085 1 cirt V.2 salest VOR ORS 2 ristV, incresse bearing: for decreased NAMEFORDER ... press cold? ... one new three or four times important to select depits 5, 2, 3, or 6 From T merense digit RADAR Bross - 5, T rear - 5.0 rader select 4 2-D otem sensor - 5 reder poors on - A radar coom out 4 malt control bean alon years ctrl L - finishts E - go into edit mode ctri B arttm adjust P - pouse (toggles between peuse and run) ctrl D - heading indicator adjust + - road mode from library (roset simulator) ctrl Z save made library to disk 5 - save current Right parameters to mode library stri X - reed mode tibrary from disk

SEATTLE AREA CHART



AIRPORT DIRECTORY—SEATTLE AREA							
CITY	AIRPORT	NORTH	EAST	ALT.	F (Fuel)	ILS (May/Freq.)	
Alderwood Manor	Martha Lake	21502	6670	500			North and past coordinates are canted at
Arlington	Arlington Muni	21616	6737	137			21* (counterclockwise) to compensate
Auburn	Auburn Muni	21290	6586	57			for orthogonal coordinate grid overlaid
Bremerton	Bremerton National	21407	6470	481			on Lembert conformal conic projection
Everett	Snohomish Co	21525	6665	603		16/109.3	On Edinbert Communities Community
Issaquah	Issaguah	21362	6668	500			
Monroe	Flying F. Banch	21481	6738	50			
Olympia	Olympia	21218	6343	206			
Puyallup	Pierce Co -Thun Fld	21208	6534	530			
Port Angeles	William R. Fairchild Intl.	21740	6375	288			
Port Orchard	Port Orchard	21373	6483	370			
Renton	Renton Muni	21351	5612	29			
Seattle	Boeing Fld King Co Intl	21376	6596	17			
Seattle	Henry M. Jackson Inti. (Seattle-Tacoma Inti)	21343	6584	429			
Shelton	Sanderson Fid.	21353	6316	278			
Soohomish Co. (Pai	ne Field) see Everett						
Snohomish	Harvey Fld	21505	6711	16			
Spanaway	Shady Acres	21201	6501	425			
Spanaway	Spanaway	21215	6491	385			
Tacoma	Tacoma Narrows	21300	6480	292			

Abilene (VOR)

13431N 12205E freq. 113.7

Abilene

13384N 12269E

RWY 17-35 7199 X 147 RWY 17-35 7795 X 147 RWY 4-22 3683 X 98 1

Acton (VOR)

13330N 13014E freq. 110.6

Ada (NOS)

\$4334N \$3461E freq. 302

Ads

14373N 13445E

315. 1001

\$WY 17-35 4998 X 98 RWY 12-30 3102 X 49



Amarillo (VOR)

14729% 11708E freq. 117.2

Amarillo Int'l

14687N | 1686E RWY 4-22 13500 X 298 RWY 13-31 5405 X 49

Ardmore, Downtown Ardmore

14055N 13260E alt. 843 RWY 17-35

4998 X 72



AND THE'S (MIDE)

14042N 1380AE 391 Pron.

14033N 13790E



Ardmore

14115N 13303F alt. 761

> RWY 3-26 7222 X 147 RWY 12-30 7199 X 147 7038 X 147 RWY 4-22 RWY 17-35 6878 X 147



Arthurs

alt. 574

284





Big Spring (VOR) 13460N | 11604F freq. [14.3

Blue Ridge (VOR)

13659N 13521E freq. 114.9

Ardmore (VOR)

Arbuckle (NDB)

freq. 14089N 13260E freq. 115.7

14054N 13271F

Borger (VOR)

14943k 118286 freq. 108.5

RWY 17/35 RWY 3-21

13836N 13013E alt. 1102

14876W 11824E

alt. 3054

5297 X 98 3395 X 98

3617 Y 50

Brownwood (VOR) 13125N 12506E

freq. 108.6 Burns Flat (VOR)

14606N 12571E freq. 110

Canadian, Hemohill Co.

14918N 12178E alt. 2385 RWY 4-22 RWY 0-18

4099 X 72 2997 X 29



Bowle

RWY 17-35

Breckenridge (NDB)

13510N 12575E

freq. 245

Breckenridge, Stephens Co. 13495N 12569E

alt. 1282 SWY 17-35 RWY 4-22

4598 X 98 2374 X 49 2374 Y 49



Childress (VOR)

14271N 12142E freq. 117.6

Childress

14289N 12145E 41t. 1952

PWY 4-22 RWY 8-26 RWY 13-31 BWY 17.35

5999 X 147 5999 X 147 5999 X 147 4496 X 72



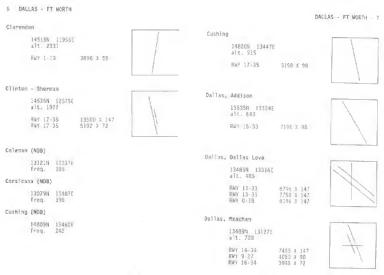
Bridgeport (VOR)

13683N 130CBE freq. 116 5

RWY 13-31

Clarendon (NDB)

14530N 11962E frec. 281



Dallas, Redoird

13414N 13302E alt. 659

RWY 13-31 5421 X 147 RWY 17-35 3798 X 147

Durant, Eaker

13945N 13516E alt. 599

RWY 17-35 4938 X 98 RWY 12-30 2997 X 72



Dallas-Ft.Worth (VOR)

13497N 13264E freq. 117



Eastland

13363N 12589E alt. 1469 RWY 17-35

4054 X 59

4198 x 59



Dallas-Ft.Worth Reg.

13510W 13248F alt. 504

> RWY 17-35 RWY 17-35 RWY 0-18 11384 X 196 11384 X 147 RWY 0-18 RWY 13-31 8997 X 196



El Reno (NDB) 14671N 13009E freq. 335

El Reno, Mustano 14649N 12998E





Duncan (YOR) 141B9N 12997E

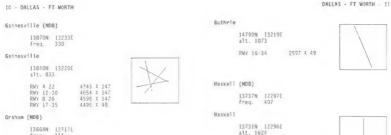
freq.

Durant (NDB)

13953N 13531E freq. 359

Farley (MDB)

freq. 326





freq. 335 Graham

13649N 12709E alt. 1122

RWY 3-21

4198 X 72 RWY 17:35

Grindstone Mountain (NDB) 13843N 13022E

freq. 355

Guthrie (VOR)

140141 120975 freq.

112.4

Henryetta (NDB)

14577N 13714F freq. 257

Hemphill CO. (NDB)

RWY 0-18

14938N 12177E freq. 400

3197 X 49

14562N 13695E alt. BEG

EKY 17-35

Hobart (VOR)

14439N 126058 111.8 freq. Hobart

14479N 1261CE alt. 1565

> RWY 3-21 RWY 12-30 RWY 17-35

3499 X 49

Holdenville (NDB) 1445DN 13557E freq. 411

Holdenville

14437N 13542E alt. 863

RWY 17-35 RWY 13-31 3197 X 98

5297 X 147 5297 X 147 5277 X 147

13435N 1344CE freq. Hudson Muni. 13432N 13426E alt. 446 RWY 17-35

Hudson (NO8)

Hymon (VDR) 13337N 11725E freq. 110.4 Xingfisher (VOR) 14810N 13023F

freq. 114.7 Lamesa (NDB) 1354ZN 11468E 338 free.

Lamesa

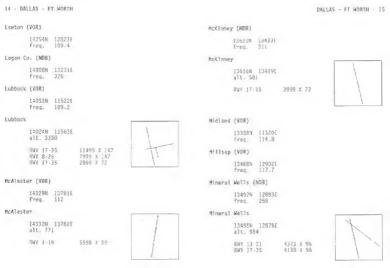
BWY 15-34

BWY 7-25

13539N 11476E alt. 2998

4198 X 72 2141 3 49

3998 X 49



Norman (NDB) 1455CN 13187E

260 freq. 14535N 13175E

Norman, Max Westheimer

alt. 1181 2997 £ 59 RWY 13-31 RWY 17-35 1797 £ 78

Oklahoma City (VOR)

14645N 13090E freq. 115

Oklahoma City, Will Rogers World

14500N 13139E

alt. 1295 RWY 17-35 9800 X 147 RWY 17-35 9797 X 147

Ray 12-30 6527 X 147 RWY 17-35 2974 X 72

Dicmulace (VOR)

14699N 13777E freq. Old Rip (NDB)

> 13355N 12592E freq. 410

Pampa (NDB) 14836% :1955:

freq. 368

Pampa, Perry Lefors

14818N 11959E alt. 3244 RWY 17-35

PWY 5 23 Paris (VOR)

13748N 13864E freq. 113.5

Paris, Cox

13787N 13850E

alt. 548 RWY 13-31

RWY 17-35 RWY 3-21

Plainview (VOR)

14216N 11587E freq. 112.9

5497 X 98

4496 X 72

4624 X 147 4621 X 147





13460E

344







14564N [3368E alt. 1079





Ouitman (VOR)

13876E 13459N freq.

Redbird (NDB)

13314E 13415N freq. 287

Sayre (VOR)

14669N 12424E freq. Scotland (NOB)

> 13951N 12769E freg. 344

Scurry (YOR)

13302N 13504E 112.9 freq.

Snawnee

Shawn (NDB)

Stephenville (NOB)

13254N 12819E freq. 223 Sulphur Springs (VOR)

RWY 17-35 4198 (147

13600N 13820E freq. 109

Sweetwater (NDB) 13451N 11984C

freq. 275

Tahlecush (NOR)

14781R 14089E

freq. 215

14763N 14067E

alt. 872

Tahleguah

RWY 17-35 3197 X 59



Tulsa (VOR)

14917N 138216 freq. 114.4



alt. 676 9997 X 196 RWY 17-35 7694 X 147 RWY 8-25 RWY 17-35 5497 X 147



Tuscola (VOR)

13322N 12211E



weetwater

13448N 11987E alt. 2385 RWY 16-34 5841 X 72 5648 X 147 RWY 3-21



Witchita Falls (VOR) 14039N 12735E

freq. 112 7

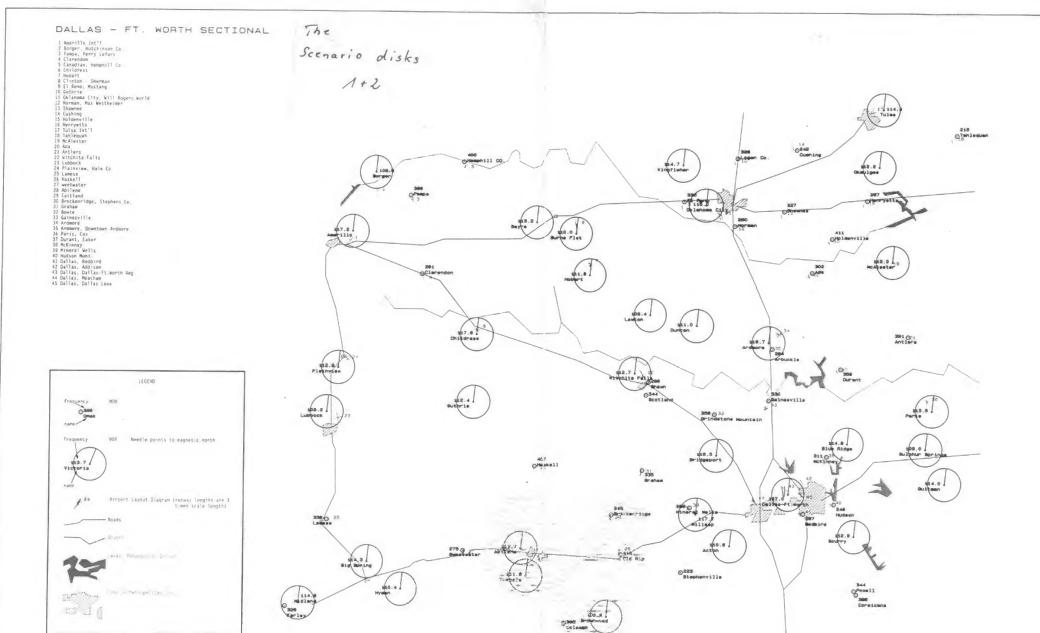
Witchita Falls

14024N 12754E alt. 1014 RWY 15-33





RWY 15-33 RWY 17-35



Stander Steely

1934 1153 F

Alexandria, Eslor Reg.

12624N 14989E

alt. 112

RWY 8-25 5995 X 147 RWY 14-37 5598 X 147



Andrau (NDB)

12042N 13663E freq. 269

Baton Rauge (VOR)

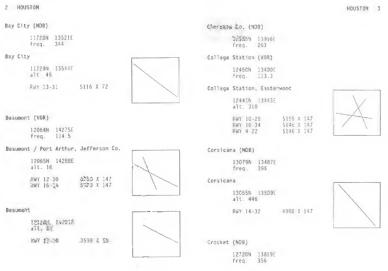
12202N 15323E freq. 116.5

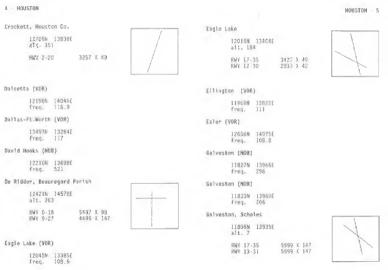
Baton Rouge, Ryan

12216N 15381E

Alt. 72 RWY 4-22 RWY 13-31

6897 % 747 5795 % 147 X





Goodhue (NDB) Houston, Hobby 12130N 14212E 11989N 12799E

Hobby (YOR) 11993N 1378LE 117.6 Freq.

11998 X 147

9400 X 147

6035 X 98

1981 X 72

4749 X 49

2997 X 49

6 - HOUSTON

Hodge (NDB)

freq. 368

13003H 14854E

12137N 13786E alt. 98 RWY 14 32

12037N 13686E

Freq. 256

Houston Intercontinental

BWY 8-26

RMY 14-32

RWY 13-31

alt. 79

RWY 16-34

RWY 11-29

Houston, Andrau











12176N 13707E

alt. 46

EWY 4-22

RWY 13-31

RWY 17-35

RWY 13-31

411. 151

Houston, Hocks Mem.





7599 X 147

7599 X 147

5999 X 147



HOUSTON - 7



Hudson (NDB)





116.6





12128H

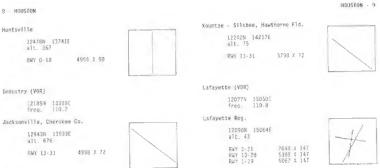
freq.

Humble (VOR)

freq.

Huntsville (NDB)







12112N 14594E

6497 % 147

4398 X 98

alt. 16

RWY 15-33

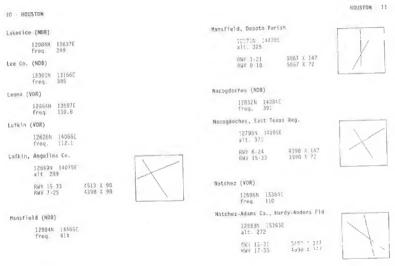
SWY 5-23

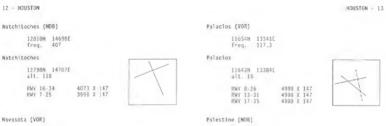
Jasper Co. - Bell Fld.

alt. 223

12473N 14324E

RWY 17-35 4149 X 68







New Iberia, Acadiana Palestine 12025N 15087E 12924N 13750E alt. 23

alt. 423 RWY 8-26 RWY 17 35

Smilmures, St. Landry Parish





7999 X 196

RWY 16-34

12257N 15026E

alt. 72

RWY 17-35

RWY 5-23

4549 X 98

4047 X 98

12392N 14567F

freq. Pine (NDB)

385

3998 X 72

3998 X 72

12470N 14307F freq. 332

freq. 115.4

HOUSTON 15

Scholes (VOR) Port Lavaca, Calhoun Co. 11840N 13871E 11631N 13217E freq. 112.8 alt 33 Scurry (VOR) RWY 14-32 3998 X 72 13302N 13504E freq.

14 . HOUSTON

freq. 515

400 freq.

Temple (VOR) Powell (NDB) 12763N 13043E 13094N 1348DE freq. 110.4 freq. 344 Tomball (NDB)

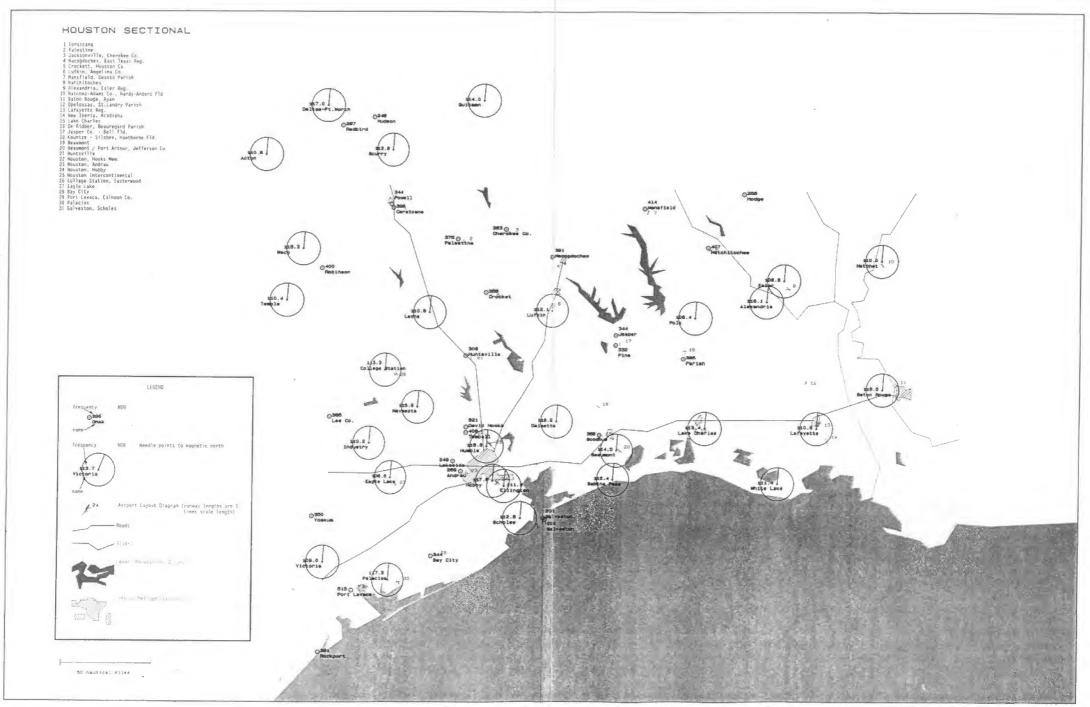
Duitman (VOR) 15 - HOUSTON 12189% 136965 13458N 13876E freq. 403 freq.

White Lake (VOR) Victoria (VOR) Redbird (NDB) 11978N 14881E

13415N 13314E 11746N 13091E freg. freq. 139 freq. 297

Yoskun (NDB) Nacc (VOR) Robinson (NDB)

11926N 13065E 12955N 13122E 12874N 13187E freq. freq.



Abilene (VOR) 3431N 1220SE

freq. 113.7

Acton (VOR)

13330N 13014E

Alice (VOR)

11267N 12652F

Austin (VOR)

12375N 12896E Freq. 114.6

Austin, Mueller

12375N 12909f

RWY 13-31

7268 X 147 5005 X 147 RMY 17-35 RWY 13-31

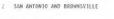
Big Lake, Rougan Co.

12937F 1:5548 alt. 2703

259 15-3-

4027 2 49





13460% 11604E

10476N 12808E

13125N 12506F

alt. 23

RWY 13-31

RWY 17 35

RWY 13-31

frec. 114.3

Caprizo Springs, Dinnit Co. 11708N 12014E

alt. 620 FWY 12-30

Center Point (VOR)

SAM ANTONIO AND BROWNSVILLE 3

1:050N |2589F freq. 353

Big Spring (VOR)

Brooks Co. (NDB)

Brownsville (VOR)

Trees.

10475N 12825E 116.3 Brewist 116/South Padre Island Int'l

freq. 117.5 Coleman (NDB)

13121N 12337F freq. 385

12281N 12306E

Coleman

131111/ 123495 al: 1696

RWY 15-33

3798 X 72

Brownwood (VOR)

freq. 108.6 Brownwood 13069N 12508E alt. 1387

RWY 17-35

RWY 12-30

5595 X 147

5999 X 147

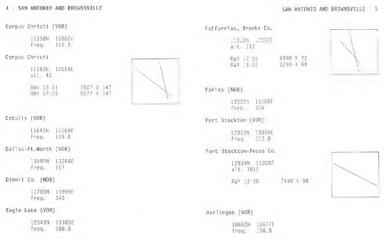
2997 K 72

4598 X 98

College Station (VOR) 12460N 13400E freq. 113.3

Conor (NDB)

11313N 12827E freq. 382



10625N 127321

alt. 36

RWY 17-35

RWY 17-35

Junction (VOR)

12503N freq.

Lampasas (VOR)

12782N 12774E freq. 112.5

Lampasas

alt. 1214 RWY 16-34

12741N .2752E

3808 X 59



SAN ANTONIO AND BROWNSVILLE 7

Laredo (VOR) 11234N

freg.

Laredo In





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	1	1	2	5	3	N			J
	a	7	t.			5	0	8	

RWY 17-35

RWY 17-35

RWY 14-32

Ray 9-27

Laughlin (VOR)

freq.	117.4
nt'l	
11253N	120988

12100E

5431



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18
33
11

RWY 8-26 5743 X 147 RWY 13 31 Honda (NDB) 12039N 12294E 329 freq.

8298 X 147

5949 X 147

6597 X 147

Handa

alt. 928 FWY 8-25 RWY 13-31

6097 X 147 RWY 17-35 RWY 4-22 5497 X 147 RWY 17-35 4696 X 147

Hyman (VCR)

13337N freq.

Industry (VOR) 12185N 13310E freq. 110.2

12113N 11688E freq. 114.4

Mitchell (NDB)

frec McAllen (VOR)

Lee Co. (NOB)

Llano (VOR)

10617N 12497E frec 109.8

1264 N 12513E

8 - SAN ANTONIO AND BROWNSVILLE

3.85 freq

108.2

McAllen, Hiller Int'l 1062 N 12503E

alt_ 108 RWY 13-31 BWY C-IB

McGregor

2984 X 59

12871% 13097E alt. 590

RWY 17-35 5497 X 147 RWY 4-22 3778 X 55

Midland (VOR) 13338N 11320E freq.

11239N 129316 freq. 114 New Braunfels (NDB)

Navy Corpus (VOR)

12136N 12740E

freq. 212

2929 x 72

4267 3 72

SAN ANTONIO AND BROWNSVILLE - 9

Monahans, Hurd Mem.

10449N 12824E freq. 375

13180N 11C54E

alt. 2614

RWY 12-30

RWY 1 19

frea. 266

13497N 12883E

Mineral Wells (NDB)

freq. 117.7

12137N 12746E alt. 646 RWY 17-35 RWY 4-22 RWY 13-31

01d Rip (NOB)

5369 X 147 5349 X 147 5359 X 98



£ 8637650 Eneq. Rockport (NDB)

11404N 13044E freq. 391

alt. 26

ENY 14-32

RMY 8-26

RWY 17-35

12372N 11903E

Reginsen (RES)

Rockport, Arkansas Co. 11402N 13046E

13167F

400

5598 X 147

4496 X 147

4496 X 147

Palacios (VOR) 11654N 1334LE freq. 117.3

freq. 410

112.3

13355N 12592E

Port Lavaca (NOB) 11628N 13191E freq. 515

Randolf (VOR) 12065H 12638E

freq. Reagan (NDB)

12943N 11536E

freq. 341 Redbird (NDB) 13415N 13314E freq. 287

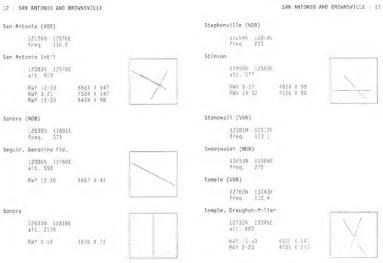
Rocksprings (VOR)

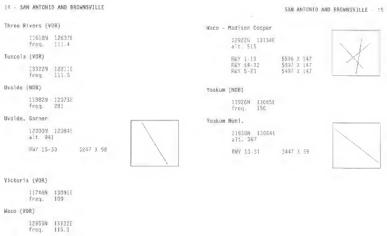
Freg. \$11.8 Sam Angelia (VOS) 12970H 17925G Press. sen seguito, Bathis,

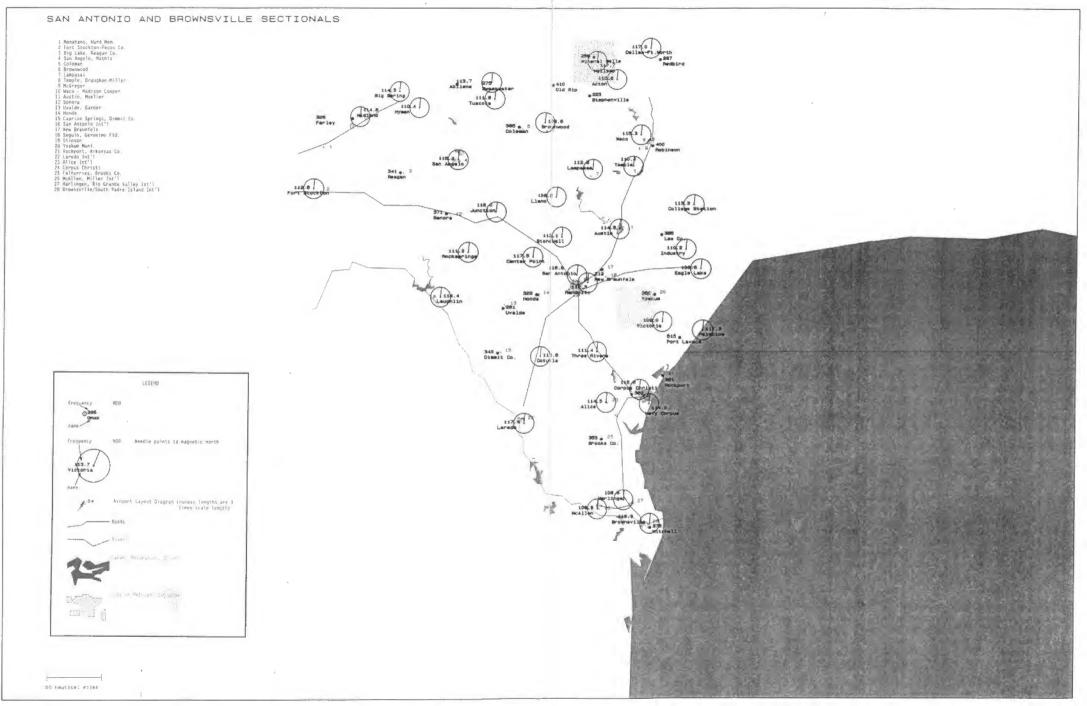
115.1 129200 189365 211. 1218

3568 0-33

14-2 FAR







	White	Charle
gorço	BILLIAN	20.17

13805W 10077E alt. 4198

Alama

BUY 3-21

Albuquerque (VOR)

L4795N 9905E freg. 113.2

Altoquerque Int'l 14782N 9979E

alt. 5353

3WY 8-26 BWY 17-35 RwY 3-21

EWY 12-30 Albuquerque, Alameda

14847N 9971E

alt. 5097 RWY 17-35 RWY 10-28

7747

7082 X 147

4247 X 59

ALBUQUERQUE AND EL PASO . 3

Albuquerque, Coronado 14841N 10003F

alt. 5281 RWY 17-35 4017 X 59 RWY 3-21 3499 X 39

13716N 10568E

Artesia

RWY 12-30 RMY 3-21 EWY 8-26

5398 3 147 6297 X 147 6799 X 147



Albuquerque, Double Eagle II

14835N 9919E alt. 5835 RWY 4-22

7399 X 98



Belen, Alexander 14629N 9867E

alt. 5182 RMY 3-21

4798 3 59



Alpine

12528N ID561E alt. 4513

RWY 1-19 5999 X 72 RWY 5-23 4621 X 39



Brewster Co. (NDB)

12645N 10682E freq. 201 Caprizozo

> 14142N 10116E alt. \$369



4897 K 72



Anton Chico (VOR)

10537F

14710N freq.

110 Artesia (NDB)

13703N 10575E frec. 414



Carlsbad (VOR)

2WY 6-24

13429N 10622E freq. 116.3



Coruma (92R)

Carlsbad, Cavern City

RWY 3-21

RWY 14 32 RWY 8 26

RWY 14 32

alt 6215

Ray 4 22

3:44309 102546

14991N 11484E freg.

FY333. Dalisant (VOR)

Carlsbad, Seven Rivers

3484H 10608L alt_ 3293



6199 X 147 5697 X 147

7852 X 147

5474 X 147

4705 K 147







RWY 8-26

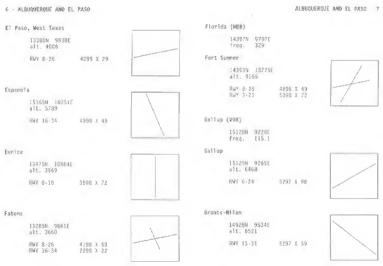


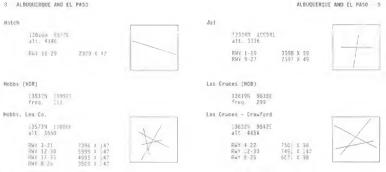
5490 X 72

4693 X 59









Holloman (VOR)

13859N freq. 108 2 Hudspeth (VOR) 13248N 101336

freq. Isleta (NDB) 14756N 9967F freq.

Las Vegas (NM) (VOR)

freq. 117.3 Las Vegas, NM

14949N 10536F alt. 6865 TWY 2 20

RWY 14-32

14952N 10547L

4996 X 72 4736 1 49





14209N LIDEAE freq. 407

5228 X 59

2538 X 42

4495 f 72

14216N 11052L

12348N 10346F alt. 2932

13919N 10556E free. 116.1

alt. 4021

RWY 2-20

RWY 9 27

EWY 17-35

Presidio, Lely Intil

Roswell (VOR)

Portales.

Ruidoso (NDB) 13994N 10183:

freo. 332 Ruidoso 14003N 101815

RHY 12-30

al1. 6911 RMY 0-1B 5497 X 72

Salt Flat (VOR)

fren. 110.6

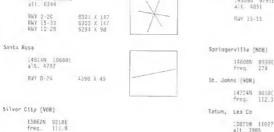
13303N 10255E freq. Santa Fe (YOR)

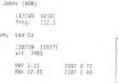
14 - ALBUQUERQUE AND EL PASO

14993N 10203E

Santa Fe Co.

ALBUQUERQUE AND EL PASO - 15





RWY 8-26

Saconno (VOR)

Silver City - Grant Co

144939 9845E

freq.

13870N 9229E alt. 5442

6799 X 98

Texico (VOR)

freg.

Topan (ND8)

Secorro

14369N 9791E

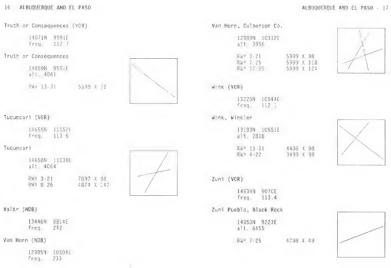
112.2

10621E

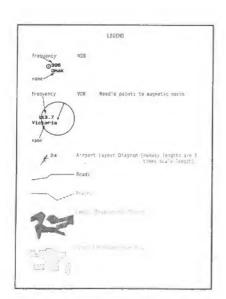
5844 X 98

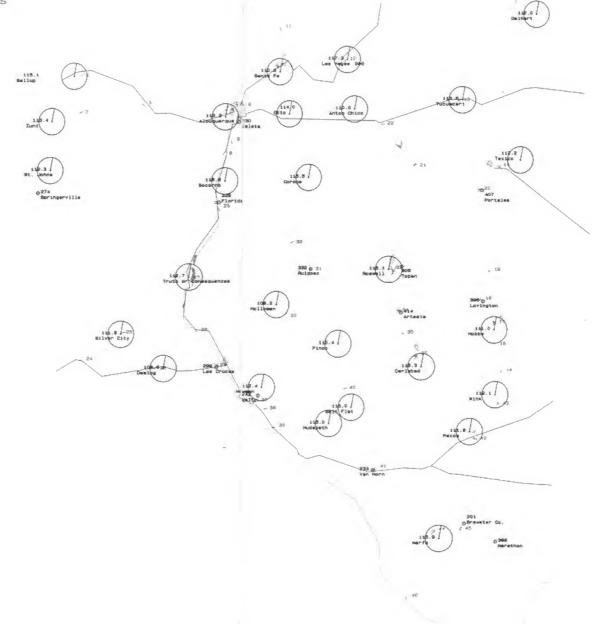
free. 305

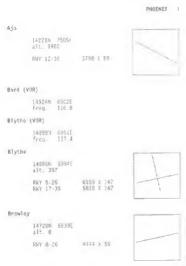
14317N 11276E

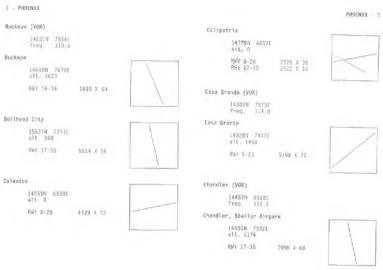


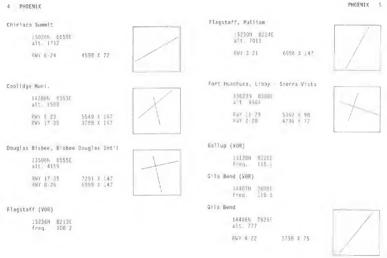


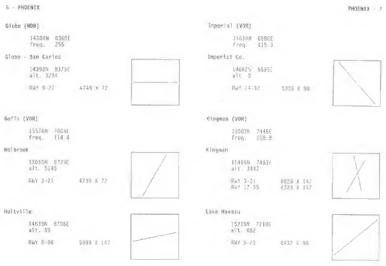


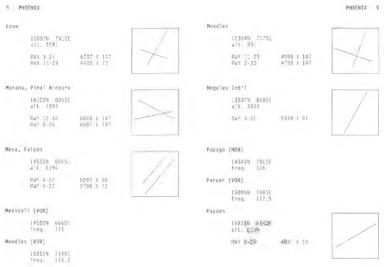


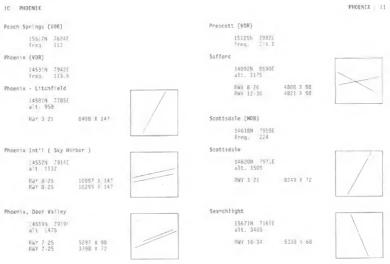


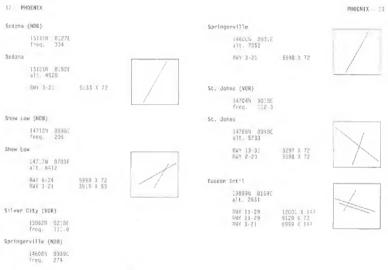


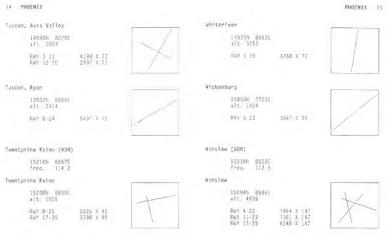












16 - PHDENIX

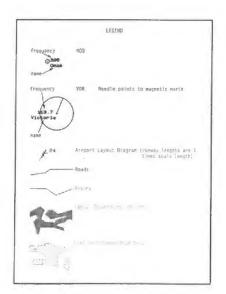
Yuma [nt*] 1447:N 5915E

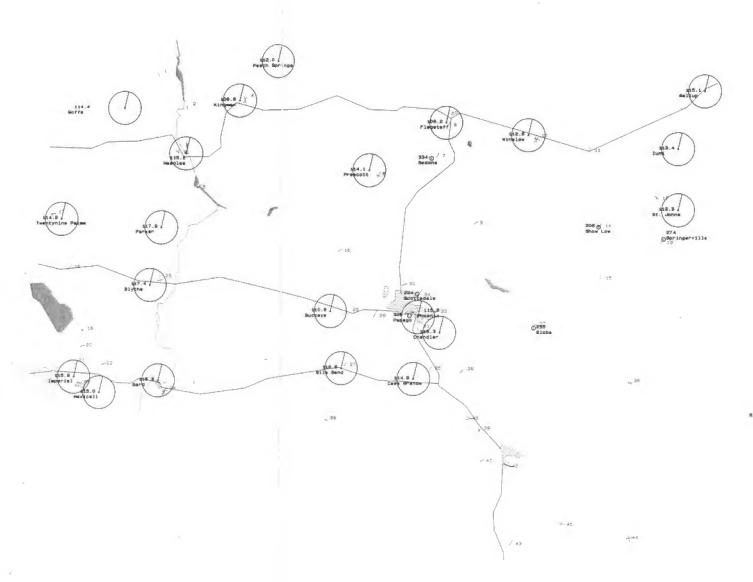
Bay 3-21 Bar 3 21 Bar 3-25 Ruf 17-35

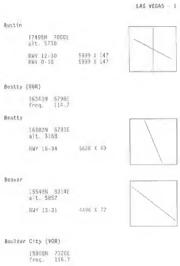
Zuni (VOR) 04934N 90701 freq.

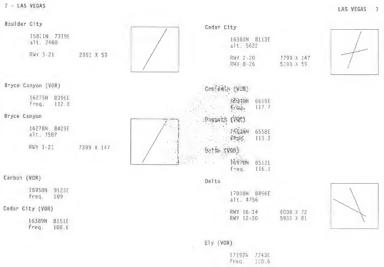


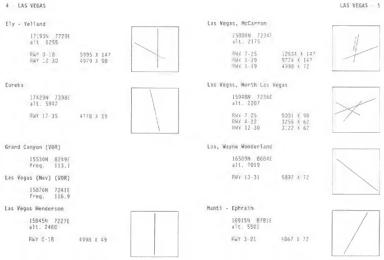


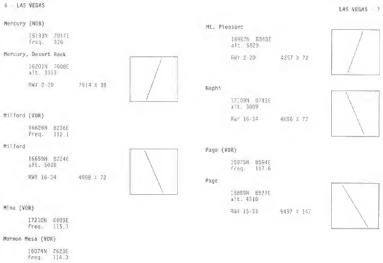


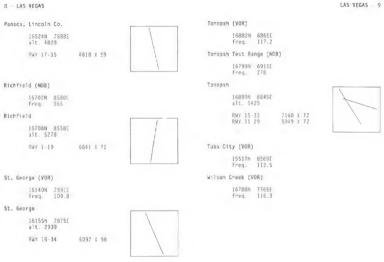


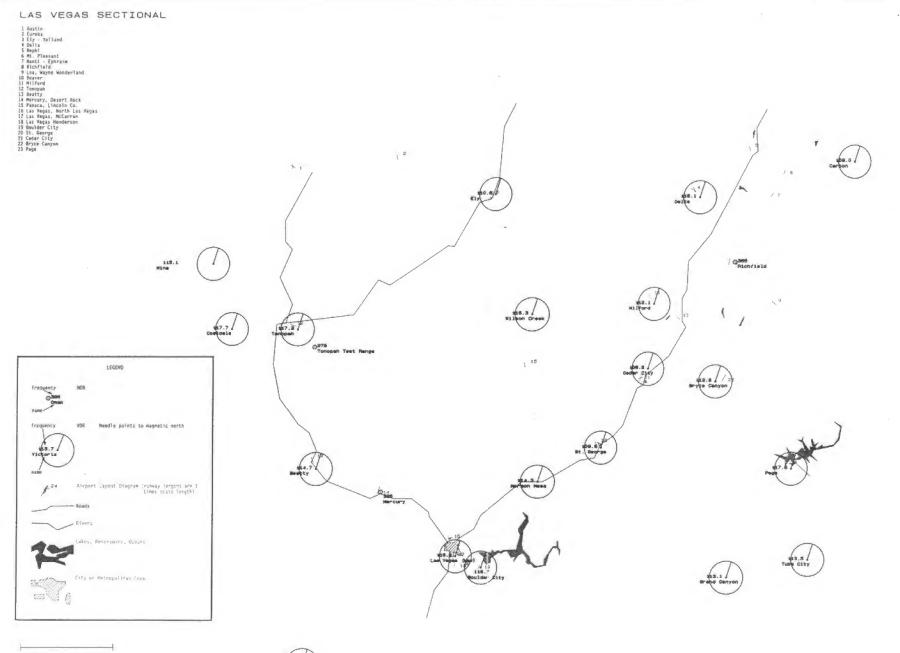


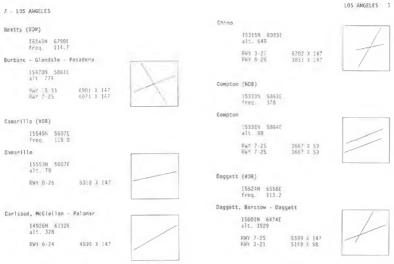


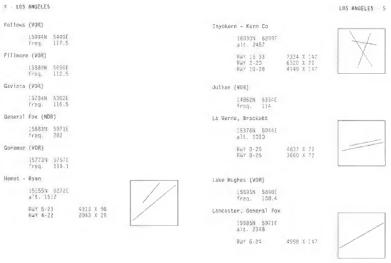


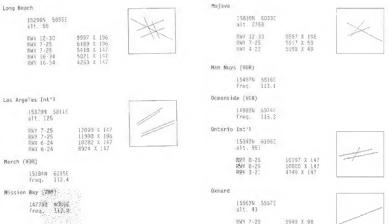


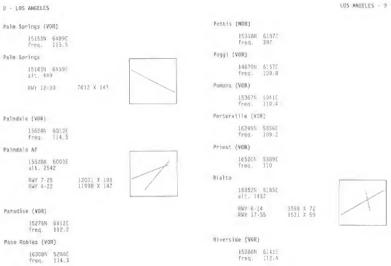


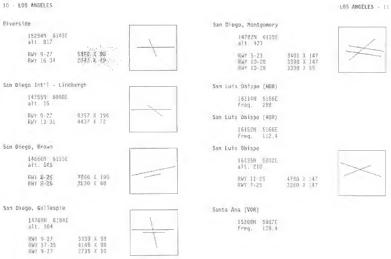


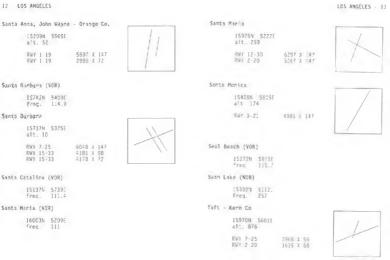


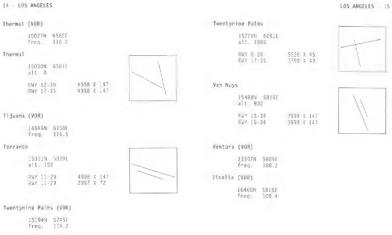


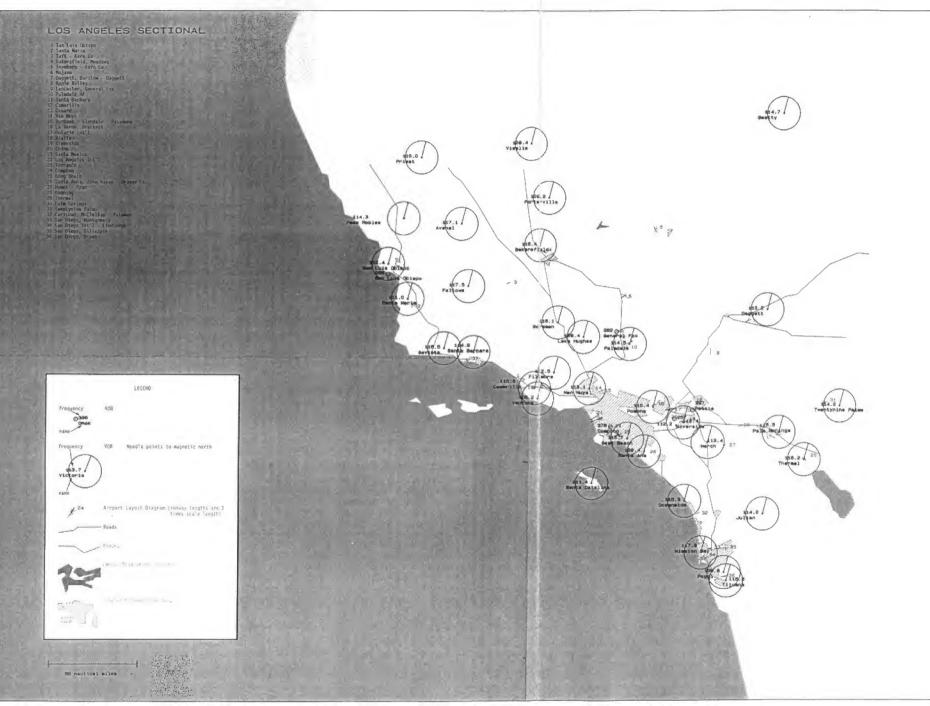












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Big Sur (VOR)
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1665BN 5071E freq. 114

Bishop (VOR)

16757N 6331E freq. 109.6

Casa Diablo (NDB)

15854A 62986 freq. 260

Chandler (NDB)

changier (NDB)

1666IN 5751E freq. 344

Chico (VOR)

18158N 5573E freq. LC9.3

> 6723 X 147 3004 X 59

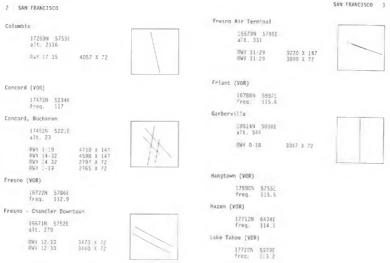
Chico

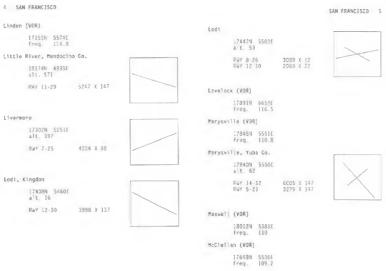
18158N 5567E

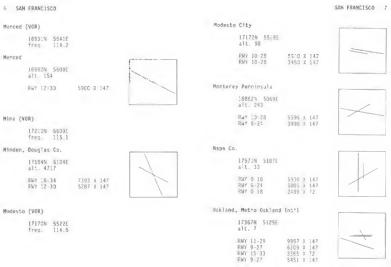
ENY 13-31 RWY 13-31

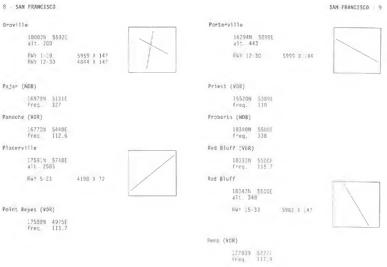
Columbia (MDS)

17267N 5759E freq. 464









10 - SAN FRANCISCO SAN FRANCISCO DI Reno Cannon Sacremento Exec. 17788N 6176E alt_ 4412 17595N 5482E alt. 23 RWY 16-34 8997 X 147 RWY 7-25 5300 X 147 RWY 2-23 5500 X 147 RWY 16-34 5539 5 72 RWY 16-35 3483 X 147 RWY 12-30 3834 X 98 Reno/Stead Salinas (VOR) 17875N 6169E alt. 5045 16852N 5163E freq 117,3 RWY 14-32 8078 X 147



17681N 5477E alt. 23

8596 X 147

RWY 16-34

San Francisco Int'l

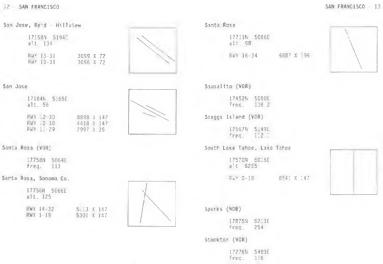
17340% 5061E

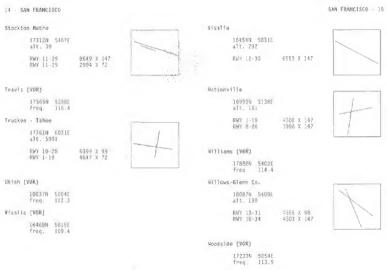
5339 X 98

4145 X 98

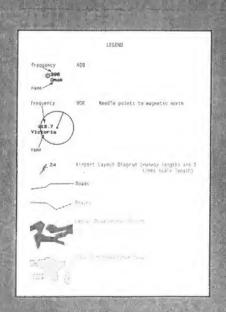
RWY 9-27

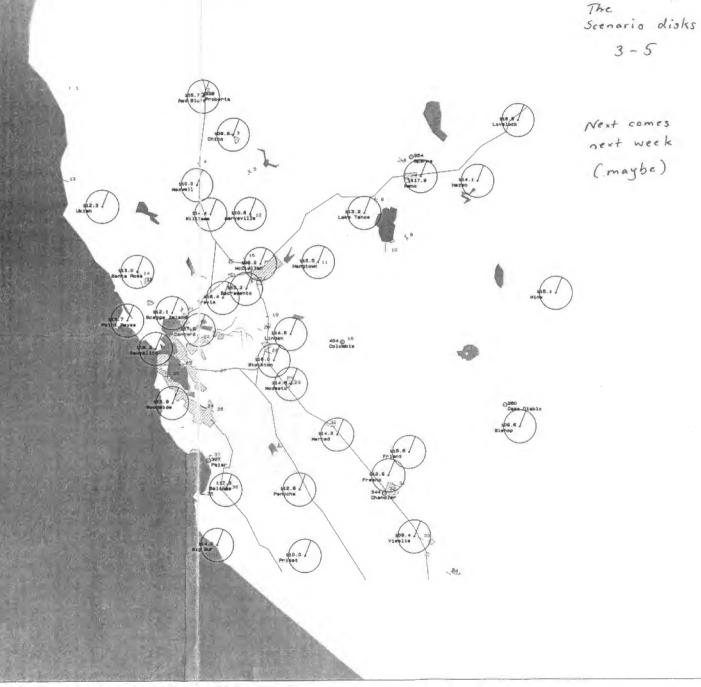
RWY 9-27 RWY 17-35











Anaconda 99614 91048 alt 5032

RhY 4-22

196449 95818 freq 329

Beaverhead (NDB) 19546% 91.48 freq. 373

Big Timber 19588N GGCGF

alt. 4480

RW1 6-24

Billings (VOR)

19492N 10339E

freq. 114.5

Blackfoot (NOB) 20925N 9521E freq. 250

4647 X 72



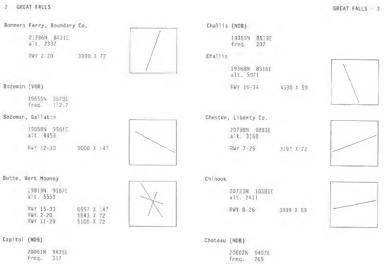


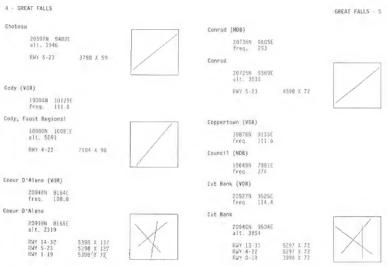
GREAT FALLS - !

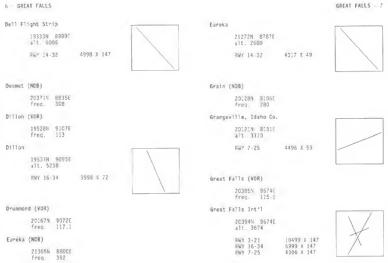


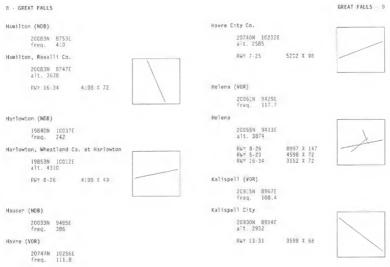


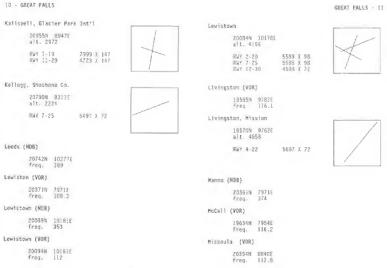


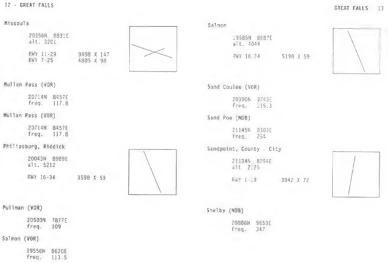


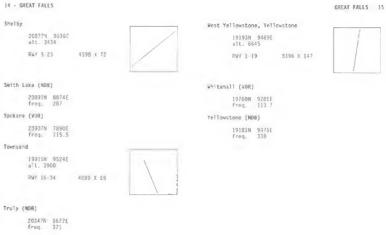


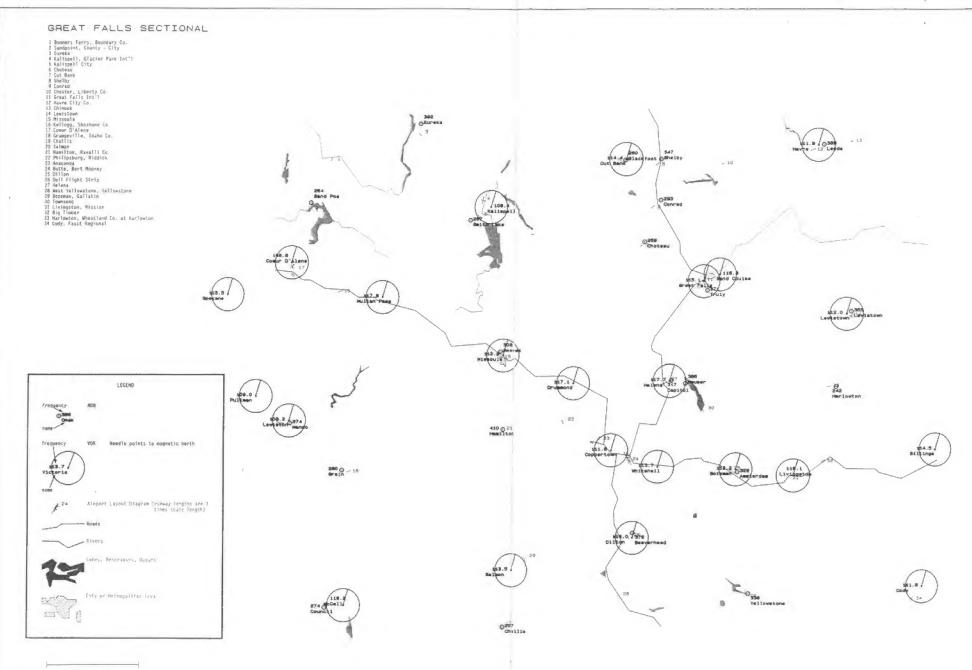












Abeta (NDB) 18912N 5055E freq. 233 Alkali Lake State 19309N 66245 alt. 4313 RWY 17,35 6149 C 107 Alturas (NDB) 18716N 6231F freq. 215 Alturas .



18711N 5223E alt. 4376 RWY 13-31

3457 X 59

1296 % 49

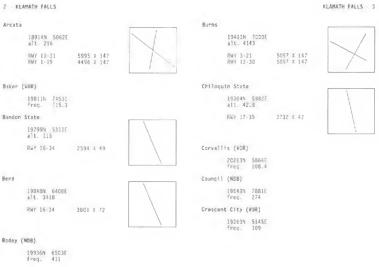


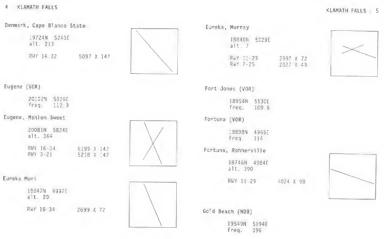
KLAHATH FALLS

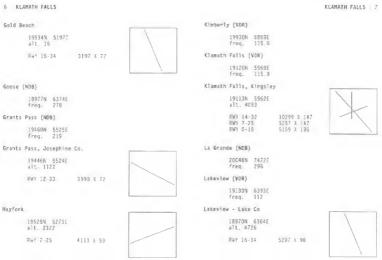
RWY 3-21

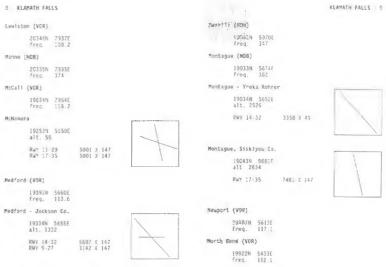
Arcata (VOR) 18923N

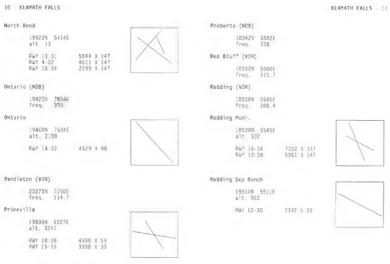
freq.

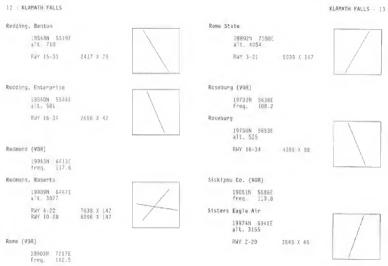






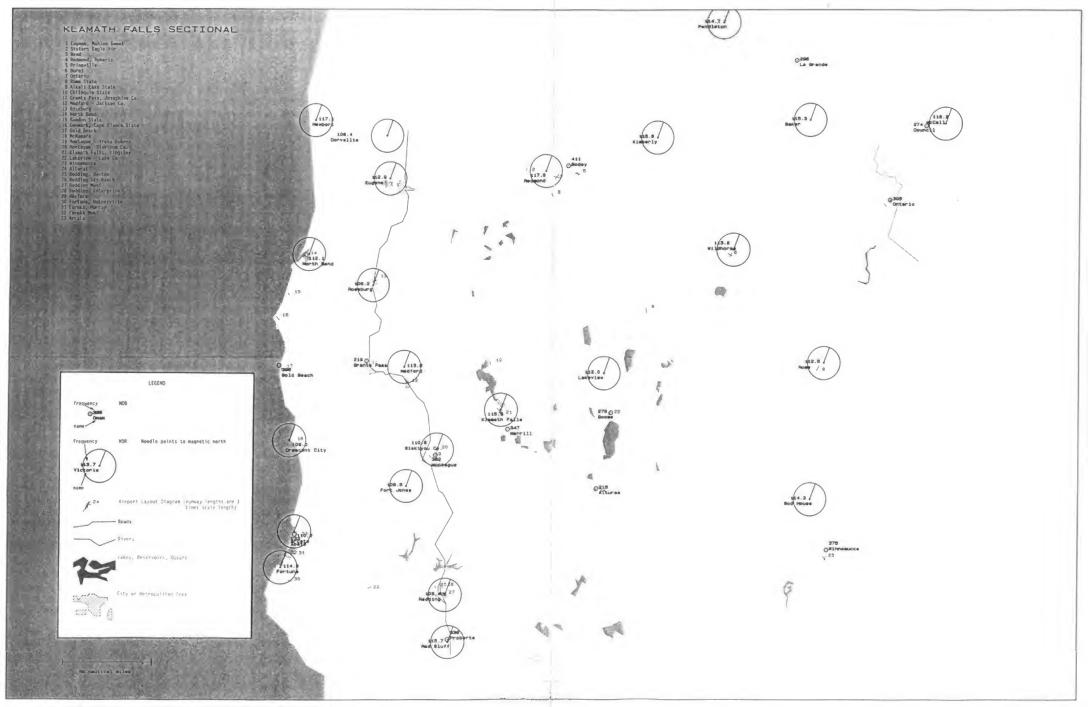






14 - KLAMATH FALLS Sod House (VDR) 18421N 7010E frec. 114.3 Wella Walla (VOR) 20357N 7490E freq. 116.4 Wildhorse (VOR) 19427N 7018F freq. 113.8 Winnemucca (NDB) 18215N 7013E freq. 375 Winnemucca 18187N 6997E alt. 4303





21619N 67445

RAY 11 29 Astoria (VOR)

alt. 138 RWY 16-34

Arlington

21017N 5941E

Astoria, Port of Astoria 21009N 5937E

RWY 3-21

alt. 10 RWY 8-26 RWY 13-31

freq. 114

5057 X 196 3981 X 196

5329 X 98

2797 X 72

107



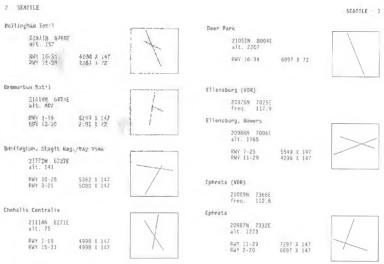
SEATTLE 1

Baker (VOR)

19811N 7453F freq. 115.3

Bellingham (VOR)

21979N 6763F freq. 113



Everett, Snohomish Co Kitsao (NDB) 21532N 6670E 21415N 6474E alt. 604 freq. 206 RWY 16-34 9006 X 147 La Grande (NDB) FWY 11-29 4946 X 72 20046N 7472E

RWY 3-21 Felts



20601N 6227E freq. Lewiston (VOR) 203469 79575 freq. 108.2

Laker (NDB)

Lewiston - Nez Perce 20358N 7894F

SERVICE . S.

freq. 117.7 alt. 1437 Kelso (NDB) RWY 8-26 5510 X 147 4998 X 98 EHY 11-29 20899N 6207E freq. 256

Kelso - Longview 20882N 6202E alt. 16



21362N 6002E

4 - SEATTLE

Hogulas [VOR]

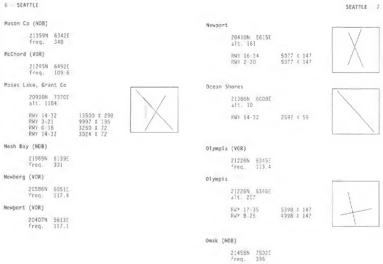


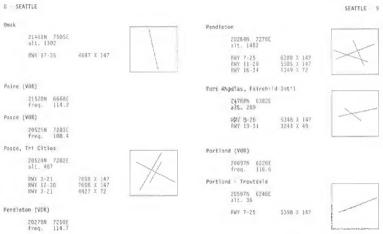
Lummi (NDB) 21913N 6748E

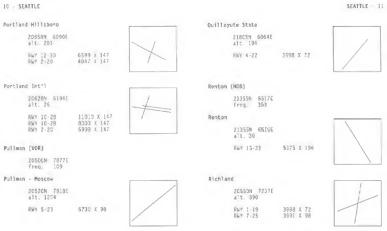
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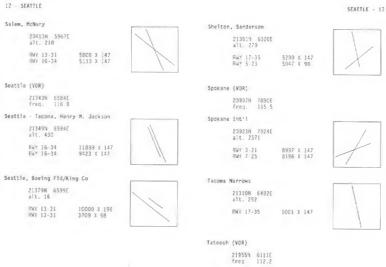
freq. Manno (NDB) 20335W 7935F

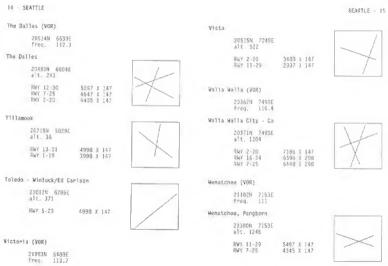
> freq. 374

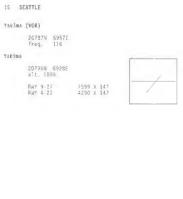


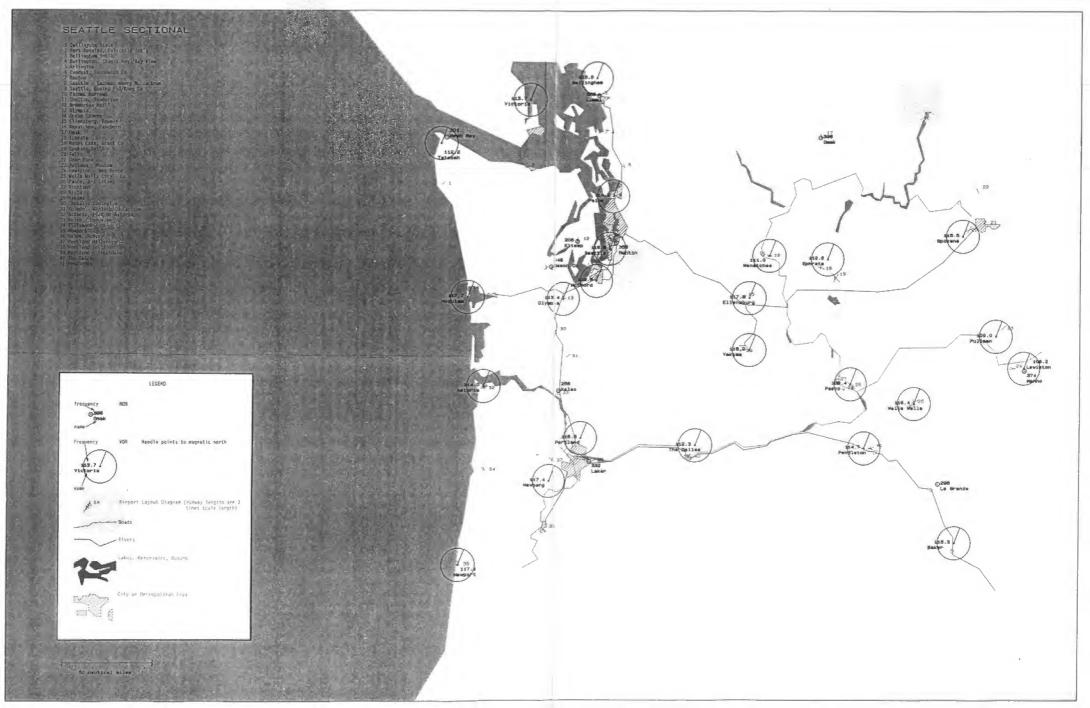












CHEYENNE - 1

16767N (150BE freq. Alliance (VOR) 17554N 11750E

freo. ILL.S

Alliance

Akron (VOR)

17554N 11750E a't. 3929 RUV 12-30 84× 8-25 BWY 17-35

Antelope (NDB) 17731N 9745E

290

freq. Antioch (NDB) 17544W 11759F free. 297

Boysen Reservoir (VOB)

18473N 10132F

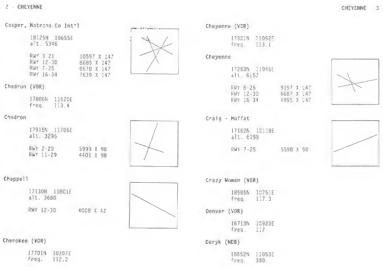
freq. 117.8

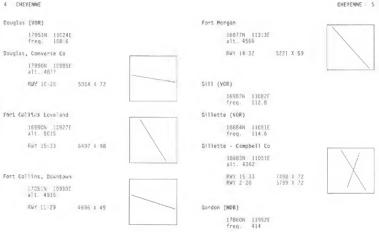
Casper (VOR) 18190N 10728F

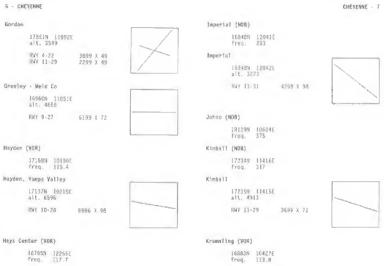
Freq. 116.2

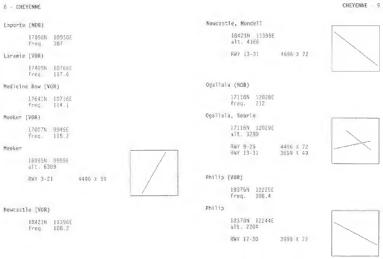
9230 X 147

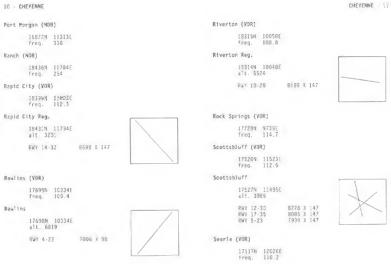
E393 X 147

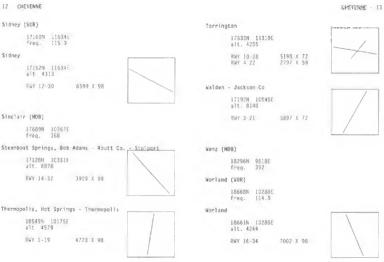


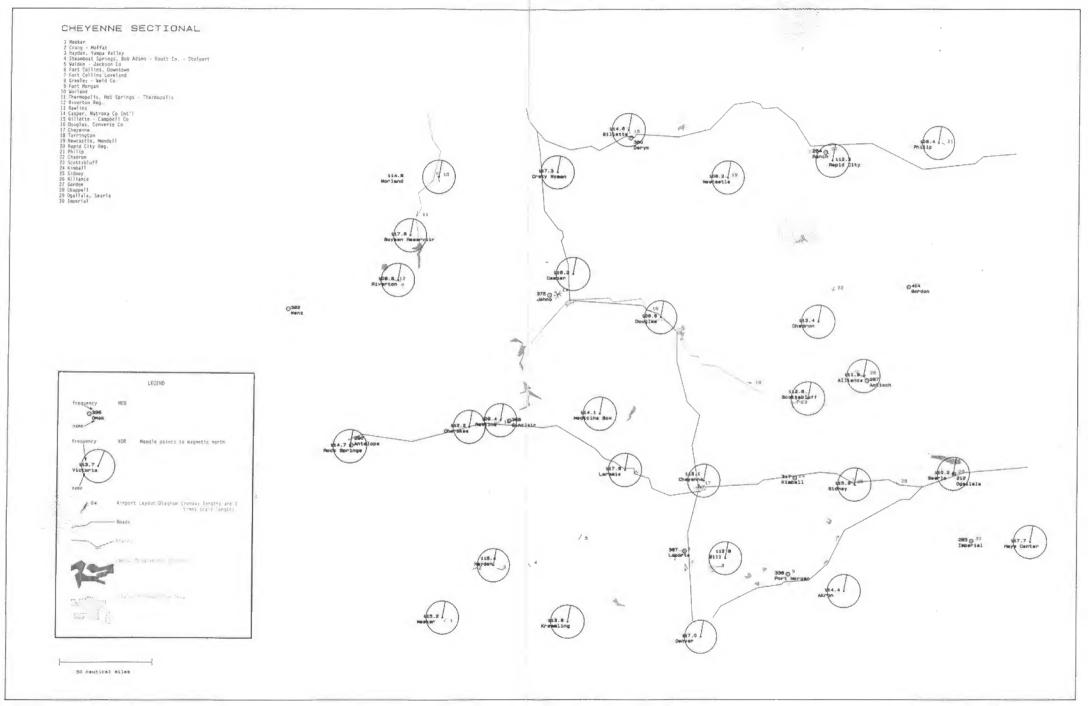




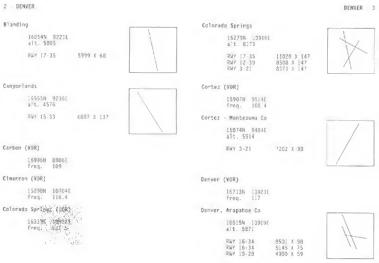


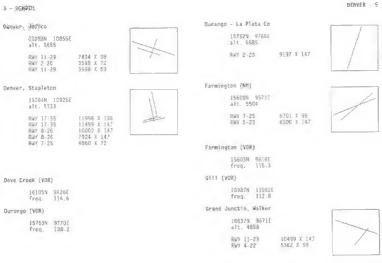


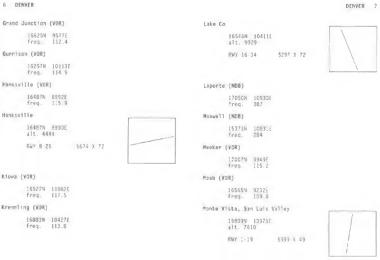


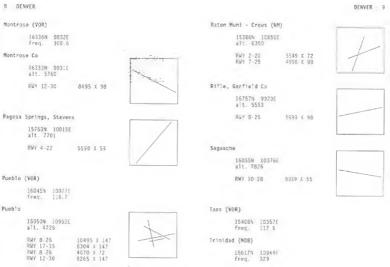


DENVER - 1 Alamosa (VOR) 15716W 10442E frea. 113.9 Alamosa - Bergman 15751N 10434E alt. 7534 347 2:20 8498 X 98 Aspen - Pitkin Co. Sardy Fld. 16576N 10225E alt. 7793 RWY 15-33 7002 X 98 Aztec (NH) 15537N 9647E a't. 5878 RWY 8 26 4295 £ 49 RwY 4-22 2847 K 39

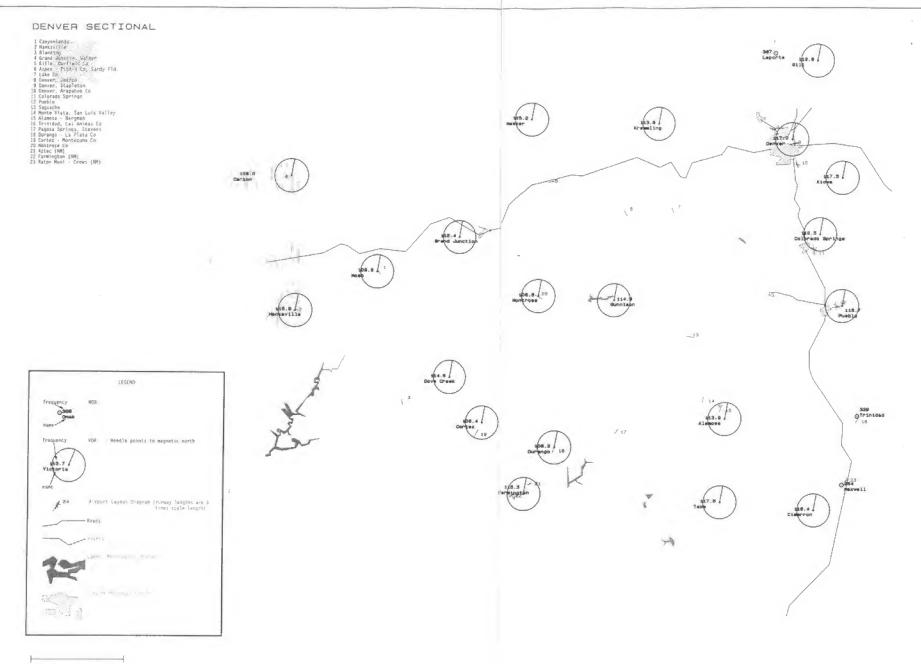








/U·塑料题 Tritted, Let Animas Co. 15177N 10938E alt. 5760 RWY 3-21 5493 X 98



Antelope (NDB) 17731H 9745E freq. 290 Battle Hountain (VOR)

> 18047M 7135E freq. 112.2

Bear Lake (NDB) 18196N 9086E

freq. 233 Sig Piney (VOR)

18234N 9503E freq. 116.5

Big Piney

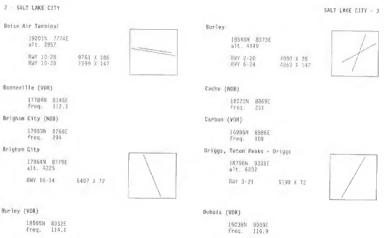
18233N 9507E

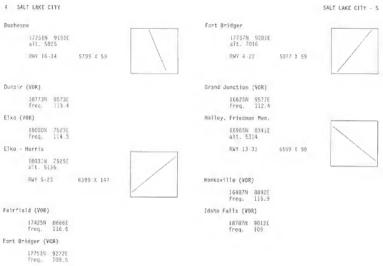
alt. 6973

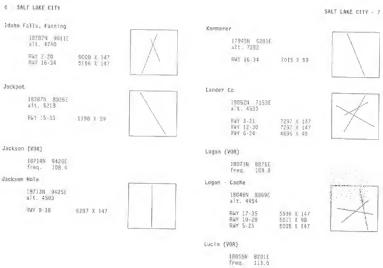
RWY 12-30

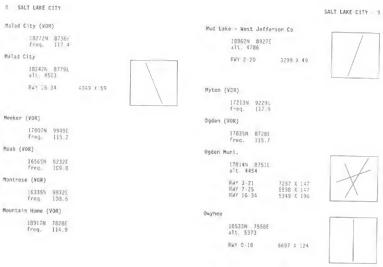
Boise (VOR)

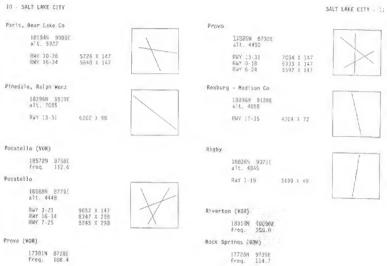
19203N 7768E freq. 113.3 4495 X 72

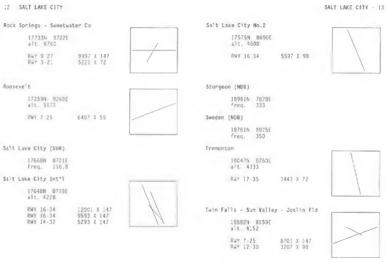


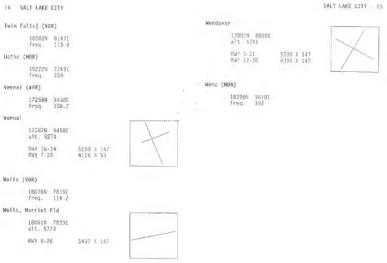


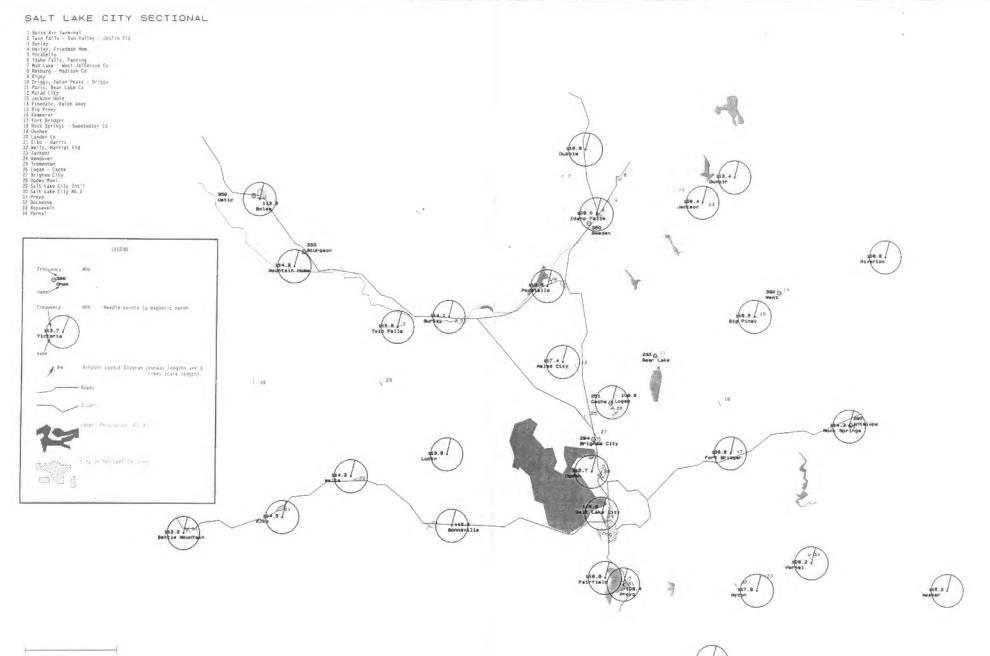












KANSAS CITY I

Ava. Martin Hem. 15038N 14862E

alt 1302 RWY 13-31

Bartlesville (VOR)

15055N 13699E

freq. 117 9 Beatrice (VOR)

16641N 13597F freq. 110.6 Bilmart (NDB)

15034N 14859E

freq. 341

Brookfield (NDB) 16249N 1478CE

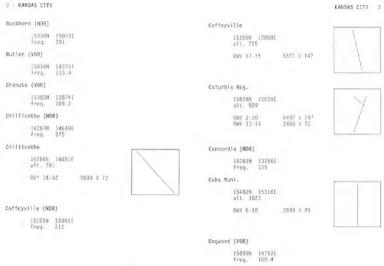
freq. 383 Brookfield Hem.

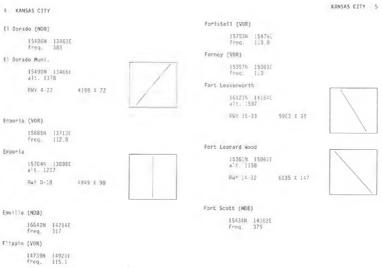
16249N 14782E alt. 807

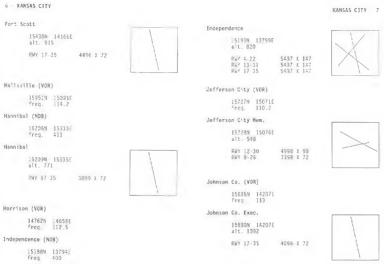
RWY 17 35

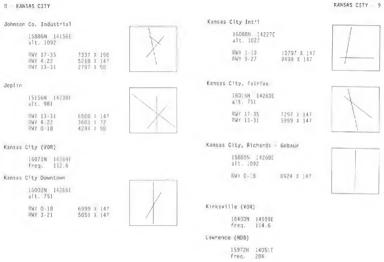
2997 £ 49

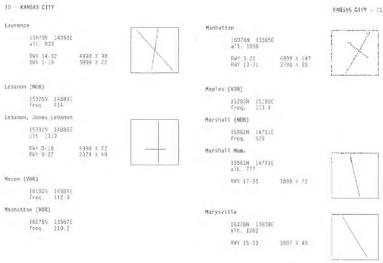
3598 X 49

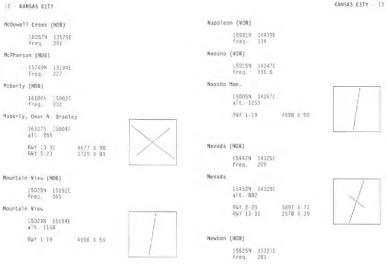


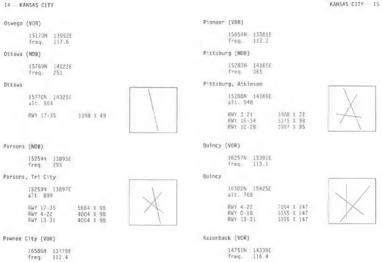


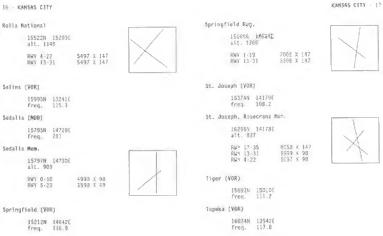












18 - KANSAS CITY KANSAS CITY 19 Topeka, Billard Whiteman (VOR)

16006N 139155 alt, 879 Ray 13-31 5097 X 147 Fay 17-35 5097 X 147 3073 X 98 Ray 4-22 Topeka, Forbes



15750N 14590E frea.

Wichita (VOR) 132028 freq.

15957N 13899E alt. 1079

Vichy (VOR)

15529N 15218E freq.

3207 X 72

12818 X 196

7999 X 196

West Plains (NDB) 14922N 15138E

RWY 13-31

RWY 3 21

freq. 335

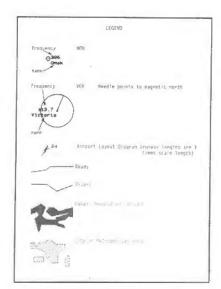
West Plains 14925% 15141E alt. 997 RHY 14-32

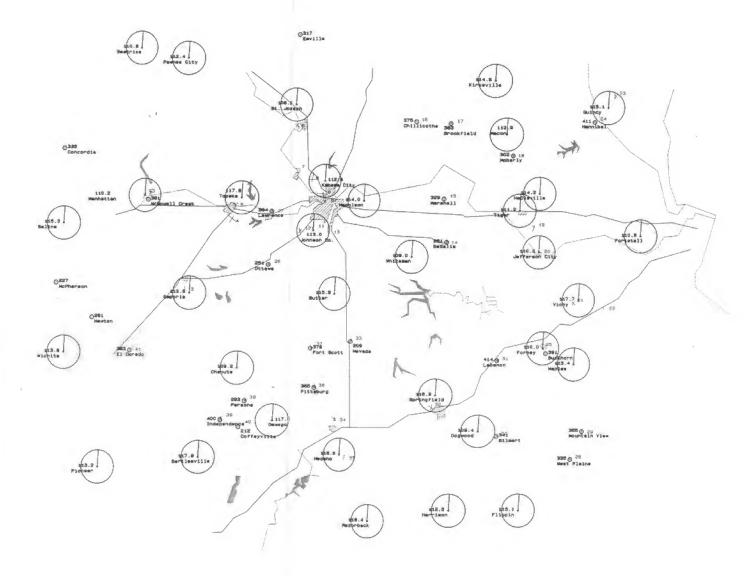


KANSAS CITY SECTIONAL

KANSAS CITY S

I karysville
Pahahattan
3 inporia
1 reports
1 r





freq. 112.7

Ainsworth

17695N 12618E alt 2588

8WY 17-35 8WY 12-30 6733 % 147

5497 X 88

4496 X 98

2899 X 72

Albert les (VOR)

18074N 14727E

freq. 109.8 Albert Lea

18074N 14729E

Alt. 1256

RWY 16-34

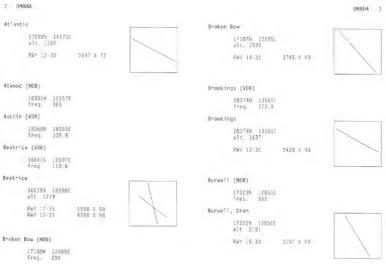
RWY 4-22

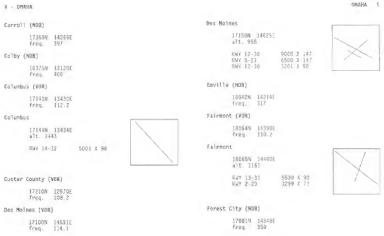
Amoni (VOR)

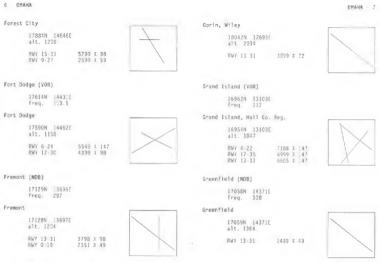
16736N 14521E freq. 115.7

Atlantic (NDE)

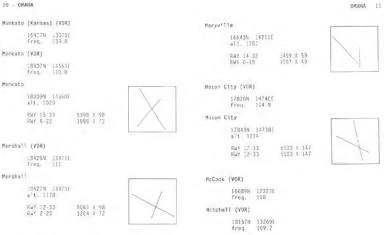
12096N 14122E Freq. 365







8 OMAHA OMAHA - 9 Gurney Kearney (VOR) 17782N 13455E 16857N 12857E alt. 1305 freq 111.2 RWY 13-31 6097 X 98 Kearney RWY 1-19 3499 € 72 16870N 12866F alt. 2129 Halfway (VOR) RWY 0-18 7091 X 147 RWY 13-31 5185 X 147 18300% 14730F freg. Hastings (VOR) Kirksville (VOR) 15802N 13050E 16400N 14959E frea. 108 B freq. 114.5 Hastings Lee Bird (NDB) 16801N 13050E 17082% 12335E alt. 1955 freg. 375 RWY 14-32 5598 X 98 Lincoln (VOR) RWY 4-22 4496 X 72 16906N 13616E freq. 116.1 Huron Reg. Lincoln 18433N 13227F 16876N 13608E alt 1289 alt. 1214 RWY 12-30 7199 X 147 RWY 17 35 12900 X 196 RWY 17-35 2997 X 72 RWY 14-32 3619 X 147 RWY 17-35



Mitchell. North Platte, Lee Bird Fld

Neola (VOR) Frieg. Mewton (VOR)

12 - 0MAHA

1713CN 13930E 17249N 14807E

18165N 13270E

6701 3 147

55C3 X (47

alt. 1302

RWY 12-30

RWY 17-35

freq. Norfolk (VDR) 17378N 13413E

freg. 109.6 Norfolk, Stefan Mem.

17376N 13413E alt. 1571

RWY 1-19 5799 X 147 RWY 13-31 5799 X 147

North Platte (VOR)





alt. 2778 RWY 12-30 7999 X 147 RWY 12-30 6599 X 98 RWY 8-26 4598 X 98 RWY 17-35 4434 (98

17085N 12332E

Oneill (VOR) 17619N 13028E freq. 113.9

O'reill 17619N 13026E 411. 2030

RWY 13-31

4398 X 72

OMAHA - L3

Obeclin (NDB) 16530N freq.

Omaha (YOR)

116.3

16999N 13950E freq.



14 - OMAHA OMAHA - TS Omaha, Eppley Airfield Platte Center (NDB) 17060N 13902F 17165N 13420E alt. 984 freq. 407 RWY 14-32 8498 X 147 Plattsmouth (NDB) RWY 17-35 6002 X 147 RWY 14-32 4296 X 72 16910W 13885F freq. 329 Plattsmouth

Ord (NDB) 17249N 12913E freq. 356 Pawnee City (VOR)

freq. 112.4 Phillipsburg (NDB)

16586N 13779E

Sac City (NDB)

16416N 12730E freq. 368 Pierre (VOR) 18483N 12630F

freq. 112.5 Pierre 18481N 12594E alt. 1742

RWY 13-31 6887 X 147 RWY 7-25 6884 X 147

freq. 356 Sac City 17522N 14212E alt. 1250

16910N 13885F

17520W 14213E

17512N 13789F freq. 414

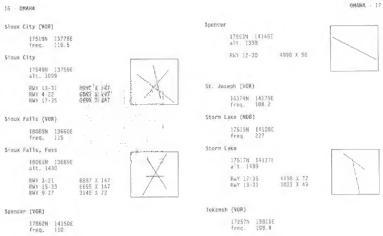
Salix (NDB)

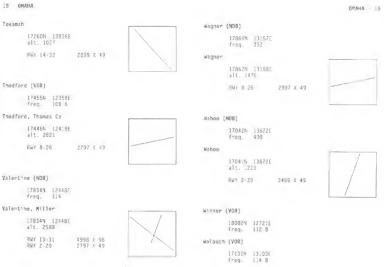
alt. 1200

RWY 16-34

RWY 0-18 3499 X 59 RWY 14-32 2660 X 42

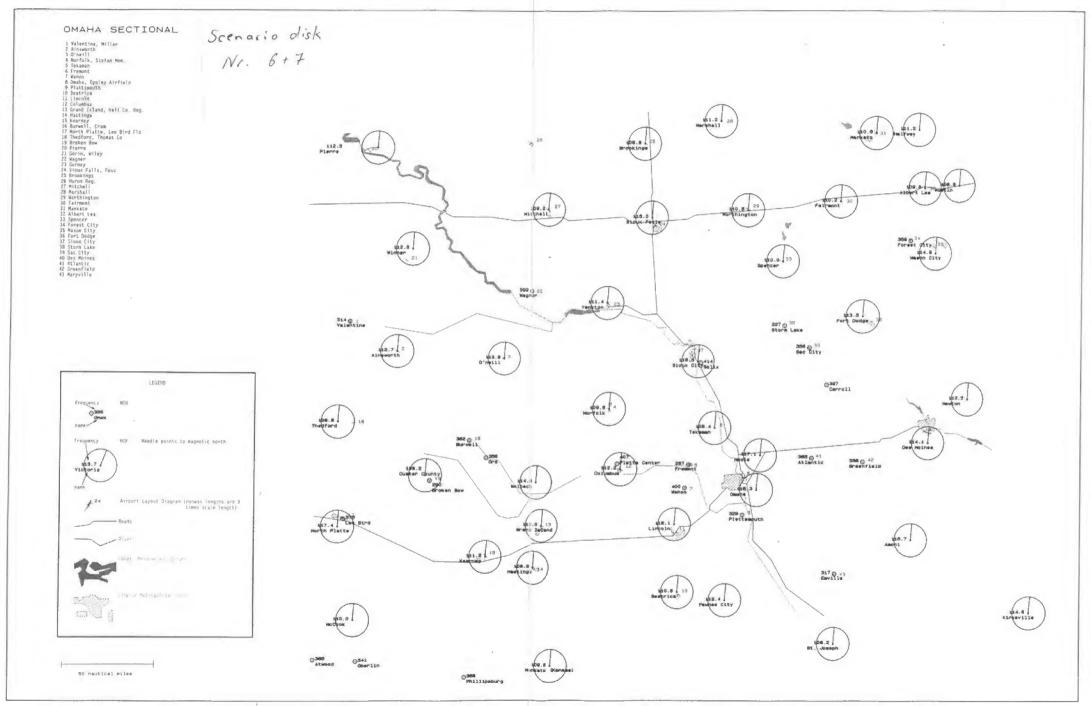
2997 1 49





20 - CMAHA Worthington (VDR) 18073N 14037F freq. 110.6 Worthington 18077R 14038E ali. 1574 RW 11-29 5503 X 14? RWY 17-35 4198 X 98 Yankton (YOR) 17784N 13452E

freq. 111 4



WICHITA - I

Anthony (VOR) 15270N 12972E

Asron (VOR)

Atwood (NDB) 15555N 12157F

15800N 11472E frem. 114.4

freg. 365 Atwood - Rawlins Co.

16555N 12156E alt. 2978

RwY 15-34

Bear Creek (NDB)

15539N 11782E freg. 341

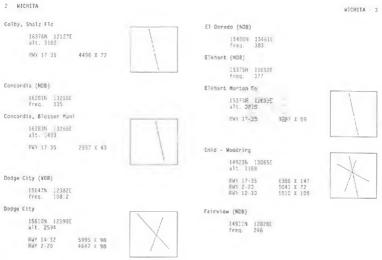
Beatrice (VOR)

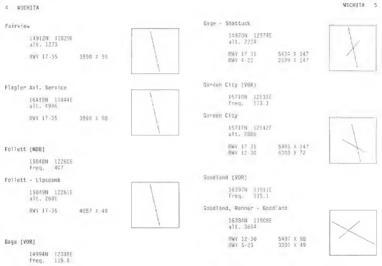
16541N 13597E freq. 110.6

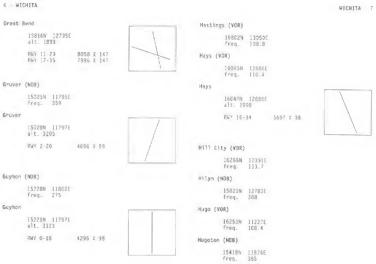
Colby (MDB)

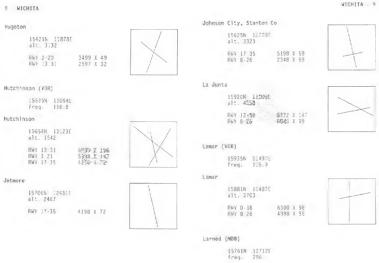
16375N 12128E Freq. 400

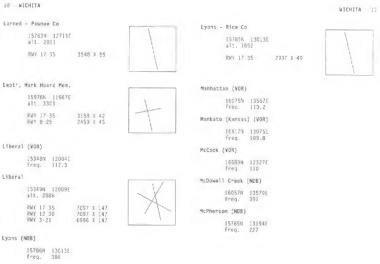
3099 X 49

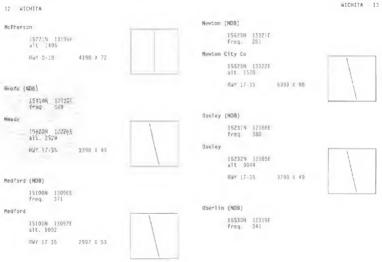


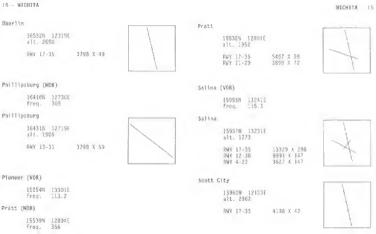


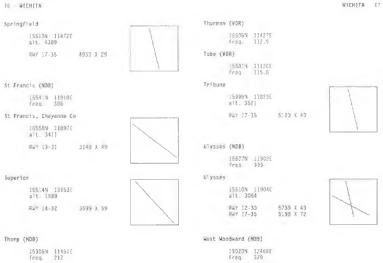












18 - WICHITA Wichits (VOR)

15501N 13202E

freq. 113 8 Wichita Mid - Continental

> 15460N | 13250E alt. 1332

EWY 1-19 66Y 1-19 ENY 14-32

Moodring (VOR) 14919N 13065F

frec. 109 Woodward, West Woodward

alt. 2188

Ray 5-23 RWY 17-35

RWY 11-29

5497 X 147

10299 X 147

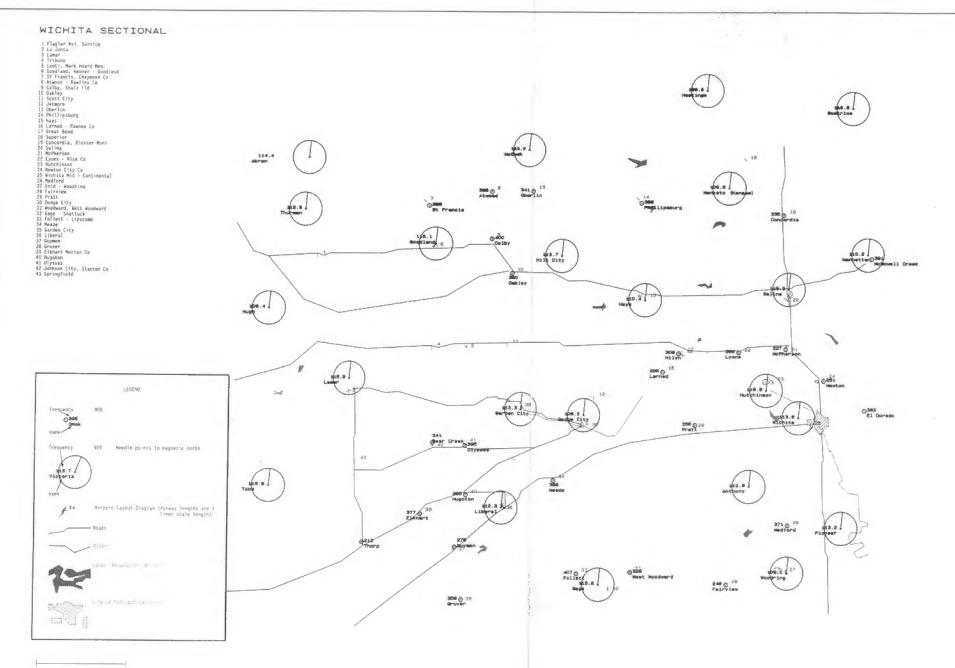
5300 X 147

7301 f 147

5497 X 147 5497 X 147

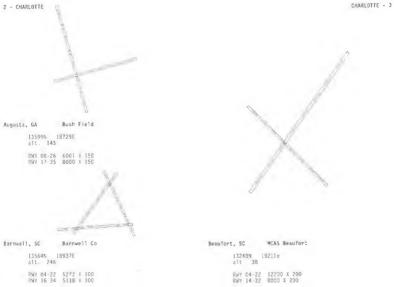






CHARLOTTÉ - 1 Aiken, SC Atken Muni 13724% 18819E alt. 5Z9 RWY 06-24 5000 X 100 RWY 18-36 3800 X 75 Allendale, SC Allendale Co 13454% 18991E alt. 160

RWY 17-35 3200 X 75





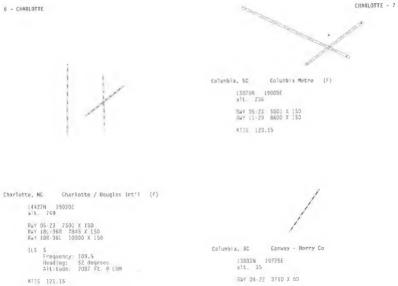
13443N 19417E alt_ 46

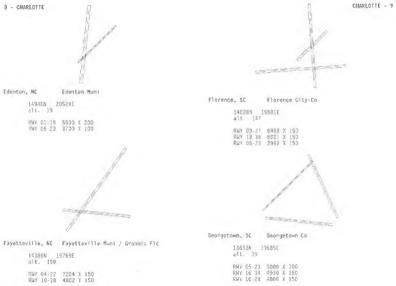
RWY 03-21 7000 X 150 RWY 15-33 9001 X 200

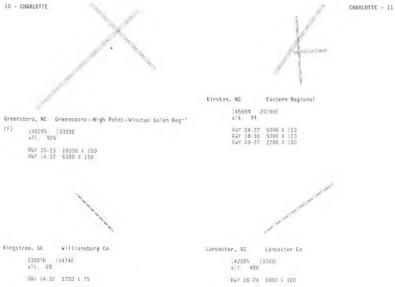


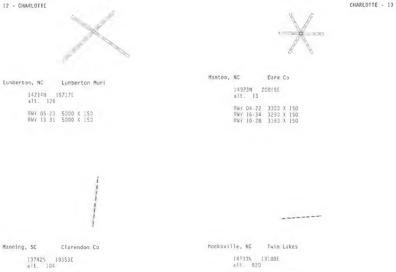






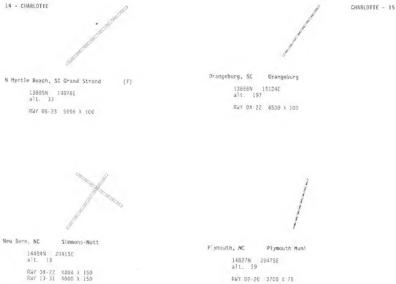


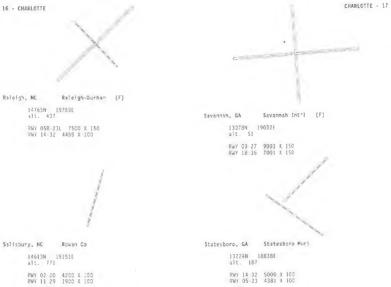


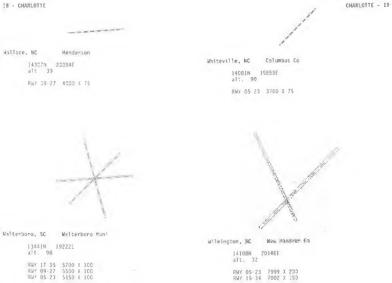


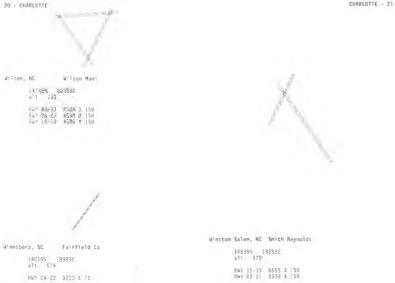
RWY 01-19 3600 X 75

RWY 09-27 2950 X 50

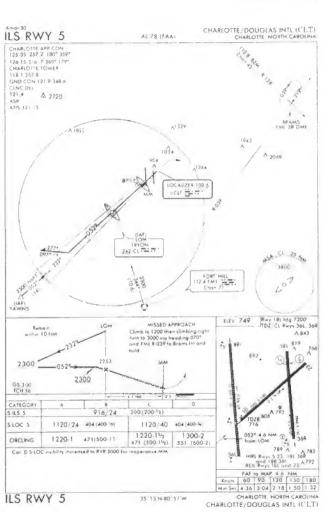






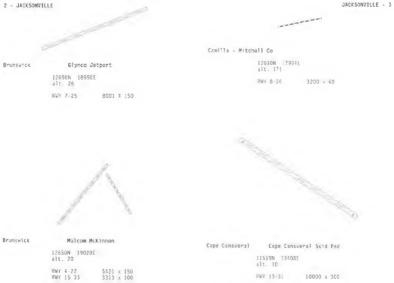


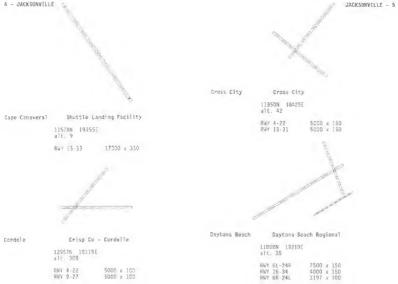
22 - CHARLOTTE		CHARLOTTE - 23		
Allendale (VOR)	Fort Mill (VDR)			
13467N 18967E freq. 116.7	14330% 190336 Freq. 112.4			
Barretts Mountain [VOR]	Grand Strand (VDR)			
14703N 18907E freq. 110.8	13986V 19869E freq. 117.6			
Charleston (WOR)	Greensbaro (VDR)			
13449N 19427E Freq. 113.5	14810% 193451 freq. 116.2			
Charlotte (VCR)	Kinston (VOR)			
14423N 1902BE Freq. 110.6	14612N 2021#E freq. 109.5	24 - CHARLOTTE		
Chesterfield (VOR)	New Benn (VOR)	Tar River (VDR)		
14201N 19283E freq. 108.2	14484N 20413E freq. 113.6	14949N 2014ZE freq. 117.8		
Columbia (VOR)	Raleigh - Durham (VOR)	Vance (VDR)		
13837N 1903CE Freq. 114.7	14766N 19770% freq. 117.2	3688N		
Fayatteville (VOR)	Sandhills (VOR)	Wilmington (VOR)		
14385% 197716 freq. 108.8	14452N 19509E freq. 111.8	14145N 20151E freq. 117		
Florence (VCR)	Savannah (VOR)	Mright Brothers (VOR)		
14039N 1951BE freq. 115.2	131034 19057E freq. 112.7	1490DN 20845E freq. 111.6		

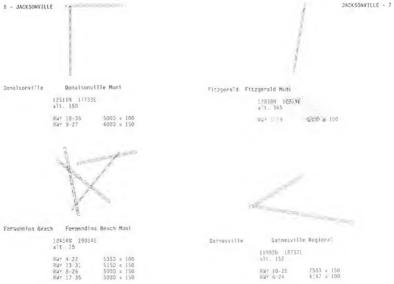


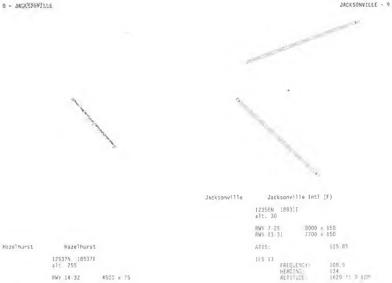
All PAGE 1 All PAGE 2 All PAGE 1 All PAGE 2 All PAGE 2 All PAGE 2 All PAGE 2 All PAGE 3 All PA	AIRPORT DI	RECTORY -	CHARL	LOTTE	AREA	4	CHARLOTTE ARE	EA CHART
Alen Media 1374 1819 587 Alen Markel 1354 1891 105 Birrivel Co. 1354 1991 105 Columbia Mero 1307 1902 20 Birrivel Co. 1408 1903 10 Florence Co. 1408 1903 10 Florence Co. 1408 1903 10 Birrivel Co. 1408 10 Bir			NORTH	EAST A	ALT. F	ILS		
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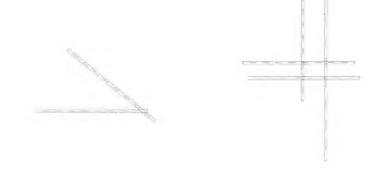




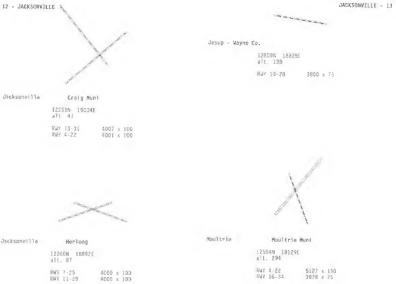


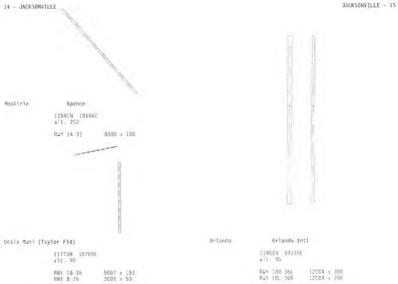


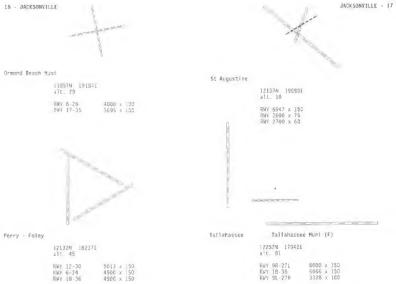


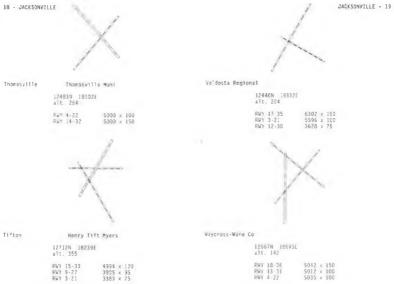


		Jacksonville	Cecil Fiel	d NAS
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	12247N 18942E alt. 22		RWY 18L-36R RWY 9L-27R	12500 × 200 8000 × 200
	RWY 9-27 8000 x 200 RWY 13-31 5977 x 200		RWY 9R-27L RWY 18R-36L	8000 x 200









20 - JACKSDNVILLE		JACKSONVILLE - 21
Alma (YOR)	Dinns (NDB)	
12788N 18591E freq. 115;J	12343N 18890E freq. 344	
Brooksville (MB)	Bonalsonville (NDB)	
freq. 278	12512% 17735E freq. 352	
Brunswick (VOR)	Gainesville (VOR)	
12605N 19005E freq. 109.8	11939N 18706E freq. 116.2	
Caidy (NDB)	Geiger Lake (NDB)	
12472N 18003E freq. 338	11562N 19315E freq. 375	
Camilla (NDB)	Herlong (NDB)	
12610W 17965E freq. 369	12261N 18893E freq. 332	
Cape Canaveral (NDS)	Homerville (NOB)	
11515W 19429E Freq. 313	12576N 1851IE freq. 209	
Cross City (VOR)	Jacksonville (VOR)	
11933W 15447E freq. 112	12299N 19003E free. 114.5	
Deland (NDB)	Kissinnee (NDS)	
11753N 19131E freq. 201	114]5N 19099E freq. 329	

22 - JACKSONVILLE

freq. 408

JACKSONVILLE - 23

Savannah (VOR) Leesburg (NDB) 1163:4 L8934E 13103N 19057E 24 - JACKSONVILLE freq. 112.7 freq 335

St Augustine (VOR) Melbourne (VOR) Tift Myers (VOR) 12140N 19073E 11358% 19399E 12712N 18235E freq. 109.4 freq. 110 freq.

St Johns (NDB) Ocala (VOR) Valdosta (VOR) 12322% 19045E 11773N 18768E 12402N 18332F freq 305 freq. freg. 113.7

St. Petersburg (VOR) Vidalia (NOB) Orlando (VOR)

11203N 18631E 11527N 19127E 13076N 18622E freq. 116.4 freq. 112.2 freq. Tallahassee (VOR) Ormond Beach (VOR) Wakul (NDB) 12326N 17928E 12227N 17938E 11859N 19185F

freq. 112.6 freq. 117.5 freq. Taylor (VOR) Patten (NDB) Waycross (VOR)

12340N 18607E 12672N 18581E

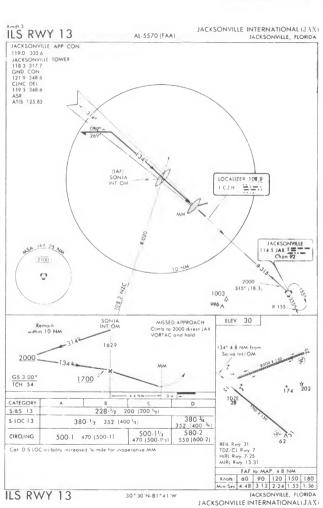
1251CN 18123E frec. 112 9 freq. freq. 245

110.2

Wynds (NDB) Taylor (VOR) Sanford (NDB)

12342N 18505€ 11986N 18777E 11629N 19156E freq. 269

freq



AIRPORT DIR	RECTORY - JACKSONVILLE A	
AIRP		LS FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Brunswick Brunswick Brunswick Malco Camilla Mitch Cape Canaveral Cape Canaveral Crisp Cross City Cross City Daytona Beach Donalsonville Fernandina Beach Fitzgerald Gainesville Hazelhurst Malco Malco Malco Mitch Cape Canaveral Fitzgerald Gainesville Hazelhurst Malco Malc	India Co. 11461 18702 76 o Jetport 12696 18990 26 m McKinnon 12650 19020 20 ell Co. 12610 17964 171 veral Skid Pad 11519 19408 10 e Landing Facility 11578 19355 9 Co Cordele 12957 18119 308 City 11950 18425 42 na Beach Regional 11808 19210 35 sonville Muni 12511 17733 160 ndina Beach Muni 12414 19014 15 rald Muni 12838 18314 365 sville Regional 11993 18737 152	PITZGERALD MUNI ALMA, GA TIFT MYERS, GA TIFT MYERS, GA TIFT MYERS, GA WAYNE CO. WAYNE CO. WAYNE CO. WAYNE CO.
Jacksonville Cecil F Jacksonville Craig I Jacksonville Herlon Jesup Wayne Moultrie Moultrie Spence Ocala (Taylor) Orlando Ormond Beach Perry Foley St. Augustine Tallahaassee Thomasville Thomasville Tifton Henry'	9 12260 18892 87 100 12809 18828 108 108 108 108 108 108 108 108 108 10	DONALSONVILLE SPENCE WAYCROSS, GA 110.2 MALCOM MCKINNON MALCOM MCKINNON MALCOM MCKINNON MALCOM MCKINNON MALCOM MCKINNON MALCOM MCKINNON BRIDINGMICK 100.E TALLAHASSEE, FL VALDOSTA, GA 110.4 TAYLOR, FL TAYLOR, FL TAYLOR, FL TAYLOR, FL MACCOM MCKINNON BRIDINGMICK MALCOM MCKINNON BRIDINGMICK MALCOM MCKINNON BRIDINGMICK MALCOM MCKINNON BRIDINGMICK 100.E TAYLOR, FL TAYLOR, FL MALCOM MCKINNON BRIDINGMICK 100.E TAYLOR, FL TAYLOR, FL MERLONG 332 GRAIG MUNI WAKUL 379 MALCOM MCKINNON BRIDINGMICK 100.E TAYLOR, FL MERLONG 332 GRAIG MUNI MAKUL 379 MALCOM MCKINNON BRIDINGMICK 100.E MALCOM MCKINNON MALCOM MCKINNON BRIDINGMICK 100.E MALCOM MCKINNON MALCOM MCKINNON BRIDINGMICK MALCOM MCKINNON BRIDINGMICK 100.E MALCOM MCKINNON BRIDINGMICK 100.E MALCOM MCKINNON MALCOM MCKINNON BRIDINGMICK 100.E MALCOM MCKINNON MALCOM MCKINNON BRIDINGMICK 100.E MALCOM MCKINNON
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7 4 o	Civil-Public use airport	GAINESVILLE, FL 116.2 ST. AUGUSTINE ST. AUGUSTINE 105.4
SANTA MONICA ATIS 119.15 175-50 NAME FREQUENCY	Restricted/Private-Nonpublic use airp having emergency use or landmark v Airport Name Advisory Frequency (if available) Elevation (feet) — Length (hundreds	CROSS CITY CROSS CITY, FL 1120 CROSS CITY
NAME PREQUENCY	VORTAC (Distance Measuring Equipm	OCALA FL OCALA MUNI (TAYLOR) DELAND 18 OCALA FL OCALA MUNI (TAYLOR)
REQUENCY NAME	VOR/DME	SANFORD 488 SETUTE LANDING FA
VOR/DME_NAME REQUENCY	Non Directional Beacon If VOR falls directly on an airport, only the symbol will be shown. The VOR facility is shown at the top of the box.	Dort Nautical Miles 0 10 :0 30 40 50
NIRPORT NAME ABBREVI. CO LLD NTL MUNI PVT)		North and East coordinates are canted at + 6" (clockwise) to compensate for orthogonal coordinate grid overlaid on Lambert conformal conic projection. LAKELAND LAKELAND LAKELAND SATELLITE SATELLITE

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	RWY 5:2		6401	x 150 x 150

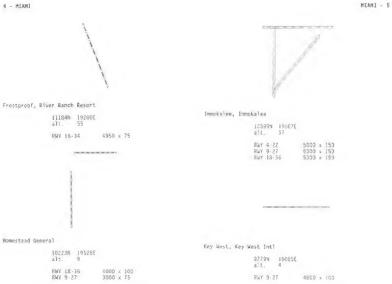
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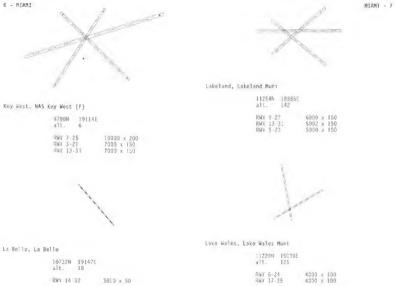


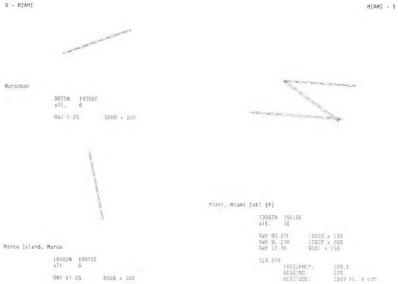


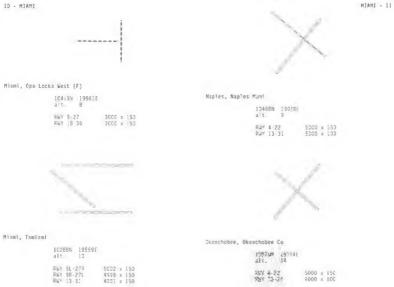
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Ft Myers, SW Florids Regional	16083N 19528E 21%. 24
10634N 19027E alt. 30	FWY 9-27 5000 x 200 FWY 4-22 5000 x 200 FWY 14-32 5000 x 100
RWY 6 24 8400 x 150	RMY 18-36 5000 x 200









12 - MIAHI HIAHI - 13



Panokue, Palm Beach Co Glades

LG770N L9429E RWY 17-35 RWY 2-25 4620 x 75 1617 x 100



3500 × 100

RWY 10-28

Pompano Beach, Pompano Beach Airpark

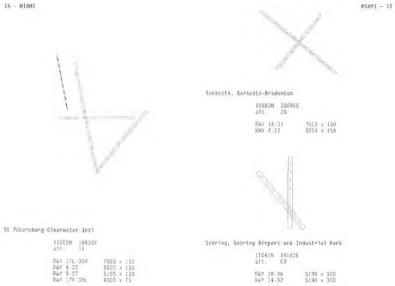
10558N 19674E alt. 20 RWY 14-32 RWY 5-23 4420 x 150 4000 x 150

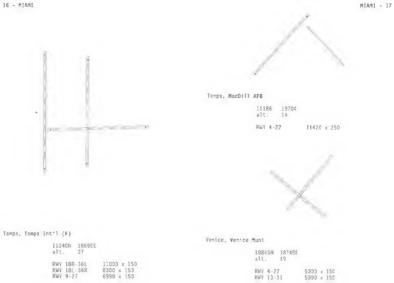
Punta Gorda, Charlotte Co

1979IN 18922E alt. 25 RMY 3-21 RMY 9-27 RMY 15-33

5000 x 150 5000 x 150

4860 × 150





B - HIAHI





109.3 96 1906 Ft PLOM

	West Palm Beach, Palm Beach I	nt1 (F)
	10746N 19662 alt. 19	E
ero Beach, Vero Beach Muni (F)	RWY 91-27R RWY 13-31 RWY 9R-27L	7989 x 150 6930 x 150 3152 x 75
11154N 1950SE alt. 25	ATIS:	123.75
RWY 11H-29L 7180 x 100 RWY 4-22 4975 x 100 RWY 11L-29R 2637 x 50	ILS 91 FREQU HEADI ALFIT	

20 - HIANT MIAHI - 21 Winter Haven, Bartow Muni 11241N 18979E alt. 128 RWY 5-23 RWY 9-27 5000 x 100 5000 x 150 Conço Town Freeport Int'l (F) 9749N

9749N 20746E 10737N 20709E alt. 15 alt. 7

ENY 10-28 5000 x IC3 RWY 6-24 11000 x IS3

22 - MAIN - 23



a)t. 9 PMY 6-24 7830 x 150

alt.

20830€

RNV 9-27 5000 x 150

Marsh Harbour

South Bimini

101408 25020F 87t. 10 R2F S-EV 5000 x 150

RWY 13-31 RWY 9-27 RWY 4-22 11000 x 150 8000 x 150 2700 x 100 24 - MIAMI 25 - MIAMI

Bimini (VOR)

10350N 20011E freq. 116.7 Biscayne Bay [VOR] 10306N 19668E freq. 117.1 Cape Canaveral (NDB) 11515N 19429E freq. 313 Cook (NDB) 10356N 19596E freq. 365 Deland (NDB) 11753N 19131E freq. 201 Fish Hook (NDB) 9774N 19073E freq. 332 Fort Pierce (NDB) 11083N 19528E freq. 275 Freeport (NDB) 10719N 20184E 10871N 20702E freq. 508 alt. II

Treasure Cay

RWY 13-3] 7000 x 150

Freeport (VOR) Kissimmee (NOB) 10735N 20210E 11415N 19099F freq. 113.2 freq. 329 Ft Lauderdale (VOR) La Belle (VOR)

10359N L9159E freq. 110.4

freq. 111.4 Ft Myers (VOR) Laceland (VDR) 10553N 18982F 11251W 18885E freq. 117.6 frea. 116

Ft Pierce (NDB) Leesburg (NDB) 11084W 19529E 11631N 18934E

freq. 275 Freq. 335 Ft. Lauderdale (VOR) Marathon (NDB)

10478N 19663F 9863N 19340E freq. 111.4 Freq. 260 Ft. Myers (VOR) Harsh Harbour (NDB)

10652N 18983E 10783N 20831E

freq. 117.6 freq. 361

Melbourne (VOR)

Geiger Lake (NDB)

11562N 19315E

freq. 375

Key West (YOR)

9791N 19067E

freq.

26 - MIANI

[0477N 19662E

10345N 19682E freq. 322

11346N 19407E

freq. 110

Miami (NDS)

HIANI - 27

Punta Gorda (VOR) Miami (VOR) 10422N 19547E 10791N 18924F freq. 110.2 freq. Rubin (NDB)

MIAM1 - 29

Nassau (VOR) 107434 196195 10133N 20759E freq. 356 freq. 112.7

28 - MIANI

freq. 242

OCALA ,FL (VOR) Sanford (NDB) 11629N 19156E 11770N 18767E 408 freq. freq. Orlando (VOR) Sarasota (VOR)

11527N 19127L 10985N 18695E freq. 112.2 freq. Satellite (NDB)

Pahokee (VOR) 10772N 19430E 11334N 19381E freq. 112.4 freq. 257

Sebring (NDB) Palm Beach (VOR) 30 - MIAMI 11041N 19155E

10742N 19667E freq. 382 freq. 115.7

St. Petersburg (VOR) Treasure Cay (VOR) Perrine (NOB)

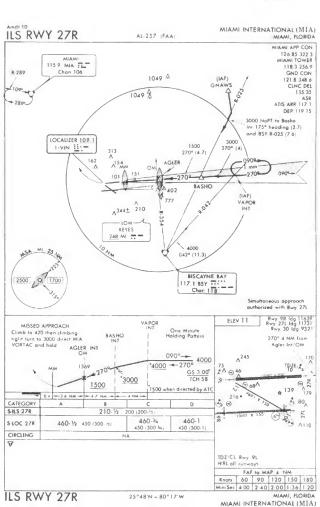
11203N 18631E 10867N 20710E 10287N 19543E

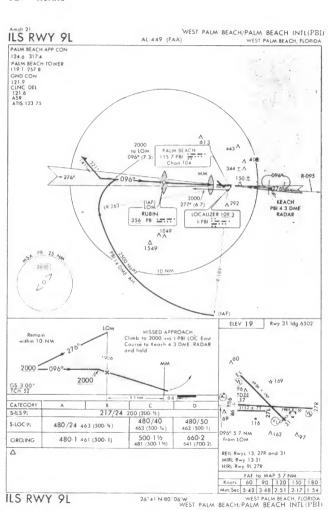
freq. 116.4 freq. 112.9 freq. 266

Vero Beach (VOR) Treasure Cay (NDB)

Plantation (NDB)

11162N 19478F 10847N 20741E 10503N 19636E freq. freq. 233

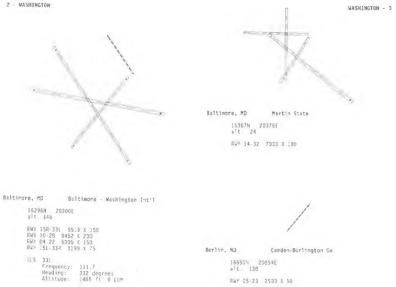


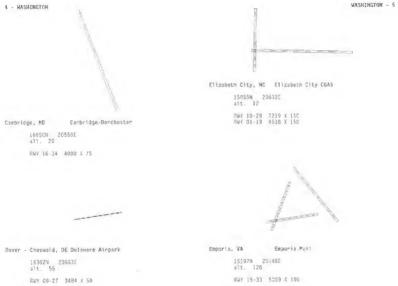


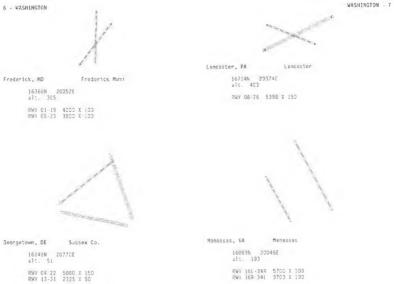
AIR	PORT DIRECTO					MIAMI AREA CHART
CITY	AIRPORT	NORTH	EAST	ALT. F	ILS (Rwy Freq)	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Ft Lauderdale Ft Myers Ft Myers Ft Myers Ft Pierce Frostproof Homestead Immokalee Key West Key West La Belle Lakeland Lake Wales Marathon Maroo Island Miami Miami Miami, Hialeah Miami Naples Okeechobee Pahokee Pompano Beach Punta Gorda St. Petersburg Sarasota Sebring Tampa Tampa Venice Vero Beach West Palm Beach West Palm Beach ATIS 123.75 Winter Haven BAHAMAS Congo Freeport Grand Bahama Marsh Harbour Nassau South Birnini	Ft Lauderdale Exec Page Fid SW Florida Regional St. Lucia Co. Int'l River Ranch Rosort Homesilead General Immokajee Key West Int'l NAS Key West La Belle Lakeland Muni Lake Wales Muni Marathon Marco Miami Int'l Opa Locka West Tamiami Naples Muni Okeechobee Co. Palm Beach Co. Glades Pompano Beach Airpark Charlotte Co. Cleanwater Int'l Sarasota-Bradenton Sebing Airport-Ind, Park Tampa Int'l MacDall AFB Venice Muni Vero Beach Muni	10532 10651 10634 11083 11184 10223 10599 9779 9779 10732 11254 11220 9873 10402 10357 10419 10288 10468 10970 10758 10770	19650 18984 19027 19528 19200 19528 19167 19085 19114 19147 18885 19039 19356	14 18 31 24 55 9 37 4 6 18 142 125 6	* 109.1/27R	FLIGHT SMILATOR II REFERENCE CHART. NOTTO BE USED FOR REAL WORLD AERIAL NAVIGATION. PART WILL AND TO BE USED FOR REAL WORLD AERIAL NAVIGATION. STAR REGISTRON ARE WELSON SERVING SERVING
Treasure Cay	Treasure Cay		20702	11		KEY WEST INTE 3 280
	LEGE	VD.				FISH HOOKE
er o	Civil-Public	use airpo	ort			
SANTA MONICA ATIS 119.15 175-50	Airport Na Advisory F Elevation (requency			of feet)	
NAME FREQUENCY	VOR					
NAME FREQUENCY 5	VORTAC (E	Distance M	1easuring	g Equipm	ent Able)	
NAME FREQUENCY	VOR/DME					Nautical Miles 0 10 20 30 40 50
NAME FREQUENCY	Non Directi	onal Beac	on			Statute Miles 0.10 20 30 40 50
VOR/DME_ NAME FREQUENCY	If VOR falls of symbol will shown at the	be shown	. The VOF			North and east coordinates are canted at + 5° (clockwise) to compensate for ortho- gonal coordinate grid overlaid on Lambert con- formal conic projection.

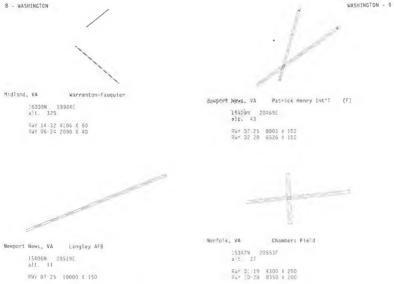


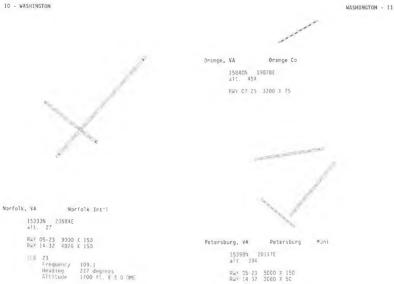
Atlantic City, NJ Atlantic City (F) 16507N 20982E alt. 76











12 - WASHINGTON WASHINGTON - 13





Philadelphia, PA Philadelphia Int'l (F)

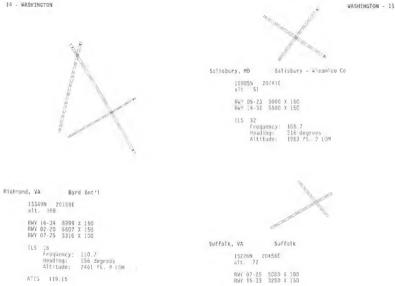
alt. 21 RWY 09L-27R 9500 x 150 RWY 09R-27L 10500 X 200

ATTS 133.40

RWY 17 35 5450 X 150 [LS 9R Frequency: LD9.3 Heading: 85 degrees Altitude: 1855 ft. 0 LDM

Philadelphia, PA Northeast Philadelphia (F) 16751N 20801F alt. L21

> RNY 06-24 7000 X 150 RNY 15-33 5000 X 150



16 - MASHINGTON - 17



Oceana NAS

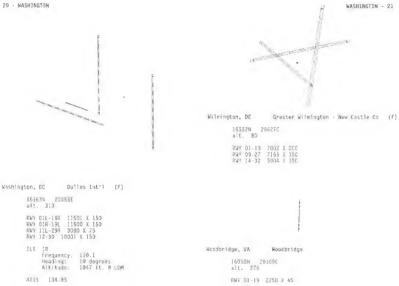
Trenton.	NJ Mercer Co.	Virginia Beach, VA Oce
10	16949W 20854C	15307% 20649E ali. 22
1	alt. 213	

RMY 05-24 6006 X 150 RMY 05-231 12000 X 200 RMY 16-34 4800 X 150 RMY 11-29 2999 X 150 RMY 11-29 2990 X 150 RMY 11-

18 - WASHINGTON - 19



	Washington, DC Washington Nat'l
ashington, DC Andrews AFB	16135N 20192E
6127M 20255E alt. 281	alt_ 15 RWn C3-21 4995 % 150
RNY 01L 19R 9300 X 200	RMT 13-21 4935 4 150 RMT 15-33 5189 4 200 RMT 18-36 6869 4 160

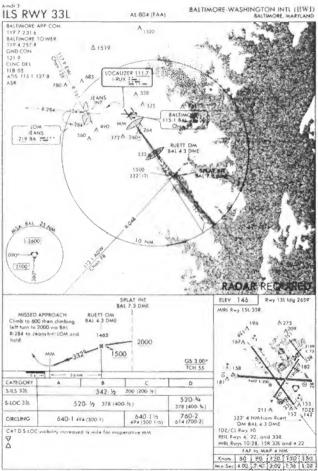


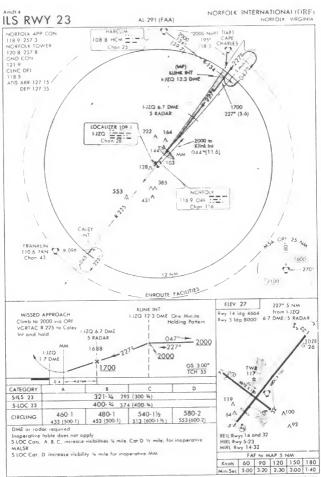


York, PA York

16601N 20199E alt. 466

24 - WASHINGTON		WASHINGTON - 25
Cofield (VCR;	Hagerstown (YOR)	
16779N 20302E freq. 154.4	16469W 19881E freq. 109.8	
Coyle (VOR)	Harrisburg (VOR)	
16566M 21009E Freq. 113 4	16736% 20130E freq. 112.5	
Dupout (WOR)	Hopewell (VOR)	
165524 20527E freq. 114	15479% 20248E freq: 112	
Elizabeth City (VDR)	Kenton (VOR)	
13053N 20029E Freq. 112.5	15366N 20684E freq. 111.4	
Flat Rock (VOR)	Lancaster (VOR)	
15537W 199051 freq. 113_3r	16715N 20377E freq. 117.3	
Franklin (VOR)	Lawrenceville (VOR)	
15219N 20317E freq. 110.6	1522BM 20003E freq. 112.9	
Frederick (VOR)	Martinsburg (VOR)	
16366N 20054E freq. 109	16335N 1989EE freq. 112.1	
Gordonsville (VOR)	Middle River (VOR)	
15734N 19859£ freq. 115.6	163684 203755 freq. 116.6	

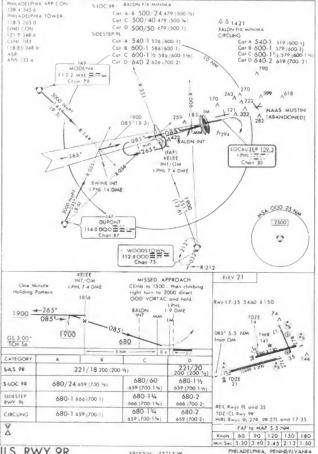


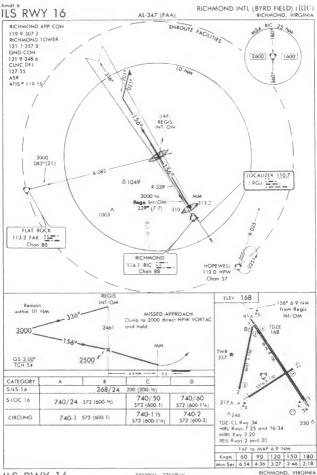


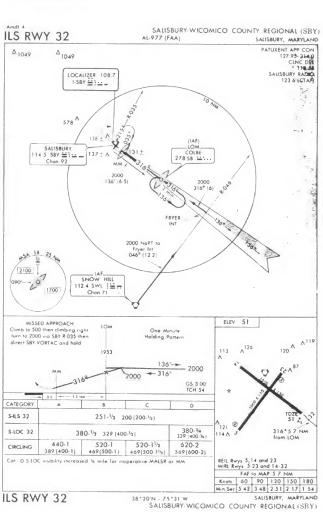
ÎLS RWY 9R

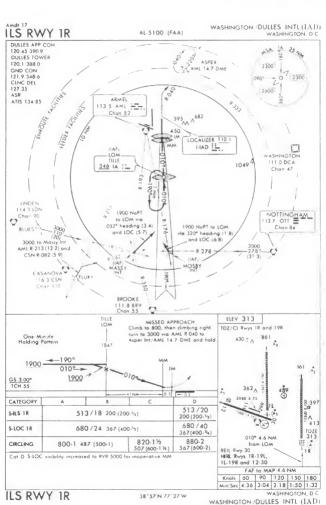
AL-320 (FAA)

PHILADELPHIA INTERNATIONAL (PHL) PHILADELPHIA PENNSYLVANIA









AIRPOR	RT DIRECTOR	Y - WASH	IINGT	ON A	REA	WASHINGTON AREA CHART
CITY	AIRPORT		EAST		F ILS	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Atlantic City Baltimore Baltimore Berlin Cambridge Dover-Cheswold Elizabeth City Emporia Frederick Georgetown Lancaster Manassas Midland Newport News Newport News Norfolk Norfolk Orange Petersburg Philadelphia ATIS 133.4	Atlantic City Int'l Washington Int'l Washington Int'l Marlin State Camden-Burlingto Cambridge-Dorche Delaware Airpark Elizabeth City Emporia Muni Frederick Muni Sussex Co. Lancaster Manassas Warrenton-Fauquii Langley AFB Patrick Henry Int'l Chambers Field Norfolk Int'l Orange Co. Petersburg Muni Philadelphia Int'l Orange Co.	16507 16296 16367 16050 16050 16050 15055 15197 16366 16141 16714 16000 15406 15419 15347 15333 15840 15398 16651	20982 20300 20376 20854 20550 20632 20632 20146 20052 20770 20374 20046 19984 20519 20469 20553 20584 19978 20117 20733	76 146 24 138 20 56 12 126 305 51 403 325 11 43 27 454	(Fue) (Rey Freq) - 111.7/33L - 109.1/23 - 109.3/9R	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION. HARRISBURG I12.5 LANCASTER PA POTTSTOWN 116.5 PHILADELPHIA NORPHEAST PHILADELPHIA PHILADELPHIA NORPHEAST PHILADELPHIA PHILADELPHIA NORPHEAST PHILADELPHIA NORPHEAST PHILADELPHIA NORPHEAST PHILADELPHIA PHILADELPHIA NORPHEAST PHILADELPHIA NORPHEAST PHILADELPHIA PHILADELPHIA NORPHEAST PHILADELPHIA NORPHEAST PHILA
Richmond ATIS 119.13 Salisbury Suffolk Trenton Virginia Beach Washington Washington Washington ATIS 134.83 Wilmington Woodbridge York	Byrd Int'l 5 Salisbury-Wicomic Suffolk Mercer Co. Oceana NAS Andrews AFB Washington Int'l Dulles Int'l 5 Greater Wilmington New Castle Co. Woodbridge York	15549 9 Co. 15985 15226 16849 15307 16127 16135 16163 - 16552 16058	20169 20741 20456 20854 20649 20255 20192 20055 20627 20109	168 51 72 213 22 281 16 313 80 276 486	110.7/16 108.7/32	WASHINGTON NATL ANDREWS AFE CASANOVA MIDLAND WARRENTON FAUQUIER WASHINGTON NATL ANDREWS AFE CAMBRIDGE BROCKE 113. SALISBURY WICOMICO CO. PATURENT 1178
_	L	GEND				GORDONSVILLE 17 18
E 4 0		Public use airp				
(8)		ricted/Private-N ng emergency				RICHMOND 114.1
SANTA MONICA ATIS 119.15 175-50 NAME FREQUENCY	Adv	ort Name sory Frequenc ation (feet) —			ds of feet)	FLAT ROCK BYRD FLD ATIS 119.15 NEWPORT NEWS PATRICICLEM BY NTL
NAME FREQUENCY NAME FREQUENCY		TAC (Distance	Measuri	ng Equi	pment Able)	PETERSBURG NORFOLK CHAMBERS GET D. TO SCREEN KINT
NAME FREQUENCY	O Non	Directional Be	acon			NORFOLK CHAMBERS FIELD AN ARFOLK INCL. LAWRENCEVILLE 112.9 SUFFOLK NORFOLK
VOR/DME_ NAME FREQUENCY	symi	R falls directly o ool will be show on at the top of t	n, The Vi			EMPORIA Nature Miles Statute Miles 10 20 30 40 50
AIRPORT NAME CO FLD INTL MUNI (PVT)	Mun	national	rpermiss	ian bef	ore landing)	COFIELD 114.4 IAR RIVER 117.8 ELIZABETH CITY Solution in the control of the con

CHICAGO - 1



Aurora

RWY 9-27 RWY 18-36

Badger, WI (VOR)

17152N 16393E

3305 X 75

5100 X 100

17732N 16499E frea. 116.4 Battle Creek (VOR)

17402N 17415E.

freq. 109.4

Battle Creek/W.K. Kellogg Reg. (BTL) (F)

17400N 1741SE alt. 954

RWY 13-31 RWY 9-27 RWY 5-23

Benton Harbor, MI

17311N 12016E alt. 643

RWY 9-27 RWY 18-36

RWY 13-31

5110 X 100

4835 X 100

4025 X 150

10005 X 150

3660 X EX

CHICAGO - 3 Bloomington - Normal, IL (F) Capital (CAP) (VOR)



16593N 16242E 108.2 freq.

Bloomington, IN (VOR) 16024N 17012E freq. 110.2

Boiler, IN (VOR)

2 · CHICAGO

16632N 16852E 115.6

> 156ME 111.4

fron Bradford, IL. (VOR)

16890N 16042E freq. 114.7

Burlington, IA (VOR) 16709N free.

Champaign, IL (VOR) 16397N 16464E frea. 110

16337N 16020E

frea. 112.7

Cappy, WI (MK) (NDB) 17/05N 1657UE freq. 410

Cedar Rapids Muni (CID) (F)

RWY 927

RWY 13-31

17208N 1530/E

Cedar Rapids, IA (VOR)

freq 117.6

1730FN 15355E alt. 863

7000 X 150



RWY 3-21 5400 X 100 4005 X 100 RWY 16-34

Danville, IL (VOR) 16511N 16695E

freq Davenport, IA (VOR)

1713IN 15757E 1138 freq.

Dayton, OH (VOR)

16427N 17731E 114.5

freq Deana (NDB)

17269N 16535E 350 Dog

Deminer, M. (VOR) 16269N 16276E

freq. 117.2



Dubuque, IA (VOR)

freu Dupage, II. (VOR)

Dells, WI (VOR)

Du Page

freq.

17920N 15997E 115.1

17213N 16466E alt. 758

RWY 10-28

RWY 15-33

17422N 15684F alt. 1076

RWY 13-31

RWY 18-36

17421N 15684E

RWY 4-22

Dubuque Muni (F)

Dwight (NDB) 16874N 16406E 344 freq

freq 108.4

17202N 16433E

115.8

6500 X 150





































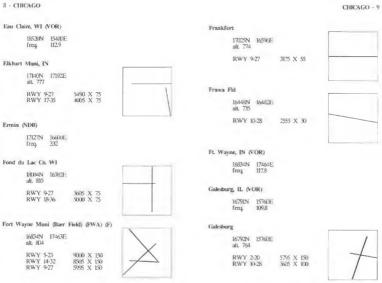












17398N 17669E

frea.

freu.



Green Bay, WI (VOR) Jackson, MI (VOR)

freq.

18354N 16485E 117

1715/JF

116.5

Grissom, IN (VOR) 16677N freq.

Jacksonville, IL (VOR)

109.6 1586 16284N 108.6



Kalamazoo (VOR)

17364N 17325E

free. 109

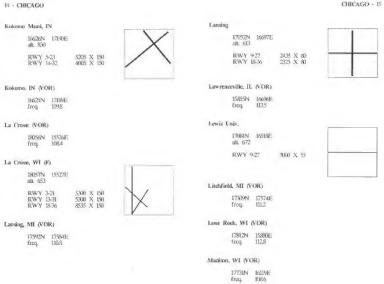
Keeler, MI (VOR) 17326N 17139E free 1166

17336N 17139E freq. 1166 Kirksvilk, MO (VOR)

freq. 1146

Knox, IN (VOR)

16957N 16981E
freq. 108.8



16 · CHICAGO CHICAGO - 17 Madison/Dane Co Reg. - Truax Fld (F)

Marion, IN (VOR) 16617N frea.

1086 Marshalltown, IA 17319N 14974E alt. 974

1730IE

17729N 16119E

4700 X 100

5845 X 150

9040 X 190

3345 X 100

5005 X 100

5000 X 100

alt. 863

Manitowoc Co. WI 18159N 16633E

alt. 649

RWY 7-25

RWY 17-35

RWY 5-23

RWY 14-32

RWY 18-36

RWY 12-30 RWY 18-36

Mattoon (MTO) (VOR) 16258N 16465F

> freq. 109.4

3900 X 55

freq. 1129

Menuire, OH (VOR)

1703 110

#Fiderest, CAT (VOR)

16246N 17796E

1010N 17939E

Milwaukee/General Mitchell Fld 1765IN 16572E alt. 679





Milwaukce/Lawrence J. Timmerman

17720N 16530E alt. 745

RWY 15-33 4110 X 75 RWY 4-22 3305 X 75

Moline, IL (VOR) 16965N

freq.

15714E

114.4



alt. 587

4915 X 150 6510 X 150 RWY 9-27

6005 X I50

Moeris Muni 17004N 16413E

> 2900 X 60 RWY 18-36

Muncie (VOR) 16512N 17412E

frext 114.4

Muncie/Delaware Co-Johnson Fld (F)

16514N 1741HE alt. 938 RWY 14-32 6500 X 150 RWY 2-20 4200 X 100



Muskegon, MI (VOR)

17760N 17156E free 115.2

17760N 17093E

6500 X 150

3205 X 100

5000 X 150

2860 X 55 2375 X 35

alt. 626

RWY 624

RWY 048

RWY 14-32

New Lenox-Howell 17025N 16571E

alt. 745 RWY 13-31 RWY 5-23

freq.

freq.

Newton, IA (VOR)

17194N 14919E 1125

Nodine, MN (VOR)

18089N 15469E freq. 117.9

Northbrook, IL (VOR) 113

17341N 16557E



Oshkosh/Wittman Field (OSH) (F)

18093N 16564E alt. 804

RWY 9-27 6170 X 100 RWY 13-31 3210 X 100 RWY 18-36 6700 X 150

3425 X 100

RWY 4-22 Ottumwa, IA (VOR)

16855N 15153E freq. 111.6

Pal-Waukee

17294N 16575E alt. 646 RWY 16-34 5140 X 100

RWY 6-24 2035 X 40 RWY 6-24 3655 X 55 RWY 12-30 4450 X 55 RWY 12-30 3230 X 40

Patterson, OH (VOR)

16346N 17848E freq. 115.2

Peoria Greater Peoria (PIA) (F)

Paxton, II.

alt. 659 RWY 13-31 RWY 4-22

Peotone, IL (VOR)

16937N 1661SE 113.2

Polo, IL (VOR)

17239N 16066F frea. 111.2

Pontiac, IL (VOR)

16742N 16316F fren. 109.6

16576N 16507E alt. 777 RWY 13-36

15965E

16670N 16000E

8005 X 150 6005 X 150

3405 X 55

freq.



Pultman, MI (VOR) 17465N 17141E

> freq. 112.1

Racine/Horlick-Racine WI

17569N 16601E alt. 672

RWY 4-22 RWY 14-32

Richmond (RID) (VOR) 16306N 17605E 110.6

6555 X 100 4825 X 100

freq. Roberts IL (VOR)

16637N 16500E free. 1168

Robinson, IL (VOR)

15963N 16679E freq. JOR 4



RWY 2-20

Rochester, MN (F)

18084N IS143E

7530 X 150 5195 X 150

5000 X 150

4100 X 100

8200 X 150

2305 X 35

alt. L319

RWY 13-31

Rockford, IL. (VOR) 17342N 16164E

110.8 from.

Rockford/Greater Rockford (RFD) (F) 1732SN 16199E. att. 735

> RWY 624 RWY 12-30 RWY 048

ROWWING OH (VOR) 16549N 12842E

frea.

Sunger (Monee) 16980N alt. 784

RWY 9-27

16646F.

RWY 5-23 2865 X 35

1175





South Bend (VOR)

Sheboygan Co. Mem. WI 1800IN 16580E

alt. 748

Shebovgan, WI (NDB)

17998N 16580/E frea 254

RWY 13-31

RWY 3-21

112

3995 X 75

5000 X 100

17I57N 17089E frea 115.4 South Bend/Michiana Reg. (F)

17129N 17090E

alt. 790 RWY 9-27 7100 X 150 RWY 6-24 3080 X 100 RWY 18-36 4250 X 100



Timmerman, WI (VOR)

fron. Troy, IL (VOR) 15840IN

St. Louis (STL) (VOR)

Terre Haute, IN (VOR)

16168N 16809E

frea. 115.3

15894N 15729E

17730N 16529E

1125

15920E

116

117.4 free.

freq. Vandalia (VLA) (VOR)

> 15992N 16173E. freq. 1143

Veals (NDB)

16369N 16495E frea. 407

Springfield, OH (VOR)

16358N 17916E 113.2 freq.

26 - CHICAGO

Waterloo Muni (ALO) 17506N 15151E alt. 872

> RWY 6-24 RWY 18-36 RWY 12-30

Waterloo, IA (VOR)

\$405 X LSO \$405 X LSO \$405 X LSO

17506N 15152E frea 112.2

Waukesha Co. WI 17689N 16468F

alt 932

RWY 10-28 RWY 18-36

Waukon, IA (VOR) 17817N 15439E (rest. 1166

White Cloud, MI (VOR)

17948N 17251E freq 117.6

Wolf Lake, IN (VOR)

16916N 17351E freq. 110.4

All	RPORT DIRECTO	DRY - CHICAGO AREA CHART	CHICAGO AREA CHART
CITY	AIRPORT	NORTH EAST ALTHURILS ATIS VASI	SCENERY DISK REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Aurora Battle Creek Benton Harbor Bloomington Cedar Rapids Champaign Champaign Urbana Chicago Chicago Chicago	Aurora W.K. Kellogg Reg (BTL) Benton Harbor Bloomington-Normal Cedar Rapids Muni (CID) Frasca Rid Univ. of IL-Willard (CMI) O'Hare Int (ORD) Merrill C. Meige Midway (MDW)	17152 18393 705 17402 17418 954 110.5:23 127.25 31,5 17311 17048 643 16993 16248 76 1 17209 15355 863 16448 732 16400 16465 754 109.1/32 124.85 22.32 17244 16578 666 109.7/14 135.15 14R,32L 17168 16628 620 111.5:4R 128.05 4R,22L,4L,22R,	NODINE INCOMINE INCOM
Chicago Clow Danville Du Page Dubuque Elkhart Fond du Lac Fort Wayne Frankfort Galesburg Gibson City Grand Rapids Howel Iowa City Janepville Joliet Kalernazzo Kankakee Kokomo La Crosse Lansing Lewis Madison Manthowo Marshalltown Milwaukkee Mi	Shaumburg Clow Int (Plainfield) Darville (DNY) Du Page Dubuque Muni Elihart Muni Fond du Lac Co. Fort Wayne Muni (Beer Field Frankfort Galesburg Gibeon City Kent Co. Intl (GRR) Howell (Chauga) Blue Island lows City Muni Rock County Johlet Kalianazoo Co (AZO) Kanikakee (RK) Kokomo Muni La Crosse Lansing Levis Univ. Dane Co RegTrasux Fld Marthwoc Co. Marshallowin General Mitchell Fld Lawrence J. Timmerman Quad City (Mun) Morris Muni Deteware Co-Johnson Fld Muskagon Co. Mushallowin Greater Psociator (RFD) Sanger (Monee) Pashon Sanger (Monee) Sheboygan Co Mem. Michiana Fel Greater Psociator (RFD) Sanger (Monee) Sheboygan Co Mem. Michiana Rog Waterloo Muni (ALO) Waterloo Muni McKinana Rog Waterloo Muni (ALO)	17025 16596 774 16792 15790 764 16594 16461 758 17643 17321 794 * 108.3/6R 116.85 8L_18	WATERLOO MINN WATERL
		LEGEND	OTTURMA 111.8 GALESBURG GALESBURG 117.8 MARION MARION
TO 0		Civil-Public use airport	BURLINGTON 118.6
•		Restricted/Private-Nonpublic use airport, having emergency use or landmark value	GREATER PEORIA BLOOMINGTON-NORMAL GIBSON CITY PAXTON BLOOMINGTON IL BLOOMINGTON IL BLOOMINGTON IL BLOOMINGTON IL BLOOMINGTON IL
SANTA MO ATIS 119.1 175-50 NAME FREQUEN	DNICA 5	Rotating light in operation, sunset to sunrise Airport Name Advisory Frequency (if available) Elevation (feet) — Length (hundreds of feet) VOR	MINIOE 114.8 DELAWARE COJOHNSON FLD MINIOE 114.8 CHAMPAIGNUIRBANA 19 CHAMPAIGN URBANA 19 CHAMPAIGN URBANA 19 CHAMPAIGN URBANA 19
NAME FREQUEN		VORTAC (Distance Measuring Equipment Able)	Scenario disk This is the rest. North and east coordinates are canted at O' (clockwee) to compensate for orthogonal coordinate and overlaid on Lambert conformal conic projection San Francisco Nr. 8, 10 + 12.
NAME FREQUEN	CY	VOR/DME	San Francisco Nr. 8, 10 + 12.
NAME FREQUEN	CY	Non Directional Beacon	Hawaii Japan Nautcal Miles 0 10 20 30 40 50

CINCINNATI - I

16507N IKSSE freq. 116.7

Appleton (APE) (VOR)

Ashland - Boyd County, KY (128) 15812N 18298E alt. 544

RWY 10-28

Azalea Park (AZS), VA (NDB) 15726N 19724783

freq. 336 Beckley (BKW) (VOR)

> 15528N 18874E free. 117.7

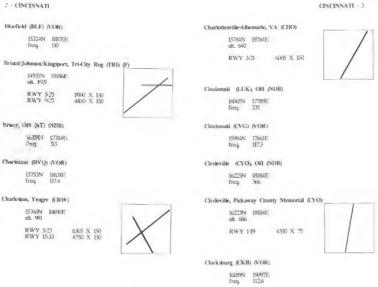
Bockley, Raleigh County Memorial (BKW)

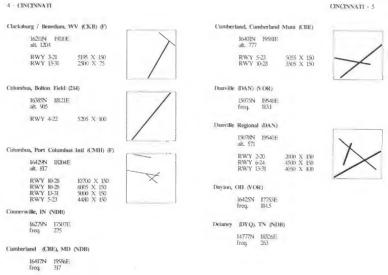
Bellaire (AIR) (VOR) 16500N 18883E. fren. 117.1

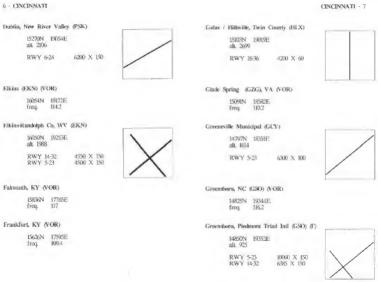
1553IN 18874E. alt. 2503

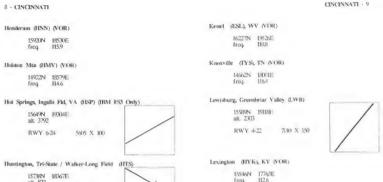
RWY 1-19 RWY 10-28

6750 X 150 5000 X 100











3005 X 60

6510 X 150

Huntt, WV (HT) (NDB) 1575IN 18331E 226

freq. Indianhead (IHD) (VOR)

16533N frog.

193671

1082

14937N 17555F **DB4** freq

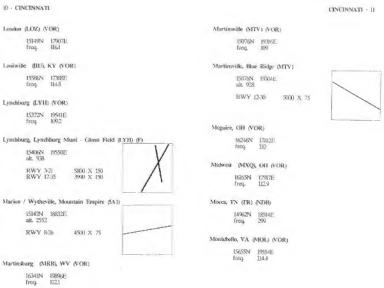
Livingston (LVT) (VOR)

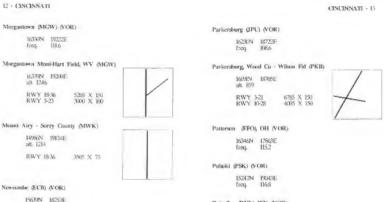
freq.

(LIB), NC (VOR)

14724N 1948SE 113 freq.

Liberty





freq. 110.4

Onida (MW) (NDB) 16241N 17785E

freq.

Newcomerstown (CTW), OH (VOR) 16577N 18667E

111.8 frou.

Rainelle (RNL), WV (VOR)

15625N

Richmond (RID), IN (VOR)

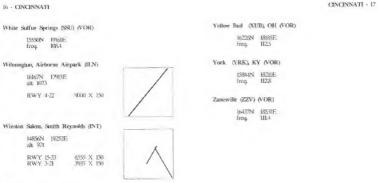
163U7N 17604E

frog. 110.6

freq.

ISST3E 1166

14 · ONCINNATI CINCINNATI - 15 Rnanoke (ROA), VA (VOR) Springfield-Beckley Muni, OH (SGH) 15392N 19257E 16364N 17929E freq. 109.4 alt. 1053 RWY 624 9000 X 150 Roanoke Reg / Woodrum Fld (ROA) RWY 15-33 \$500 X 150 15375N 19287E ahr. 1178 Suntie, OH (CM) (NDB) RWY 16-34 9000 X 150 RWY 2-20 6605 X 150 16429N 18240E RWY 7-25 5315 X 100 391 freq. Reserved (ROD), OH (VOR) West Jefferson, Ashie County ((NC67)) 16539N 17867E 14943N 18026E 117.5 freq. alt. 3172 RWY 927 4300 X 75 Snowbird (SOT), TN (VOR) 14617N 18279E freq HR8 Wheeling (HLG), WV (VOR) South Boston (SBV), VA (VOR) 16615N 18958E. freq. 112.2 15133N 19646E freq. 110.4 Wheeling Ohio Co (HLG) Springfield (SGH), OH (VOR) 16574N 18934E alt 1197 17928E 16364N freq. 113.2 RWY 3-21 5000 X 150 RWY 16-34 4500 X 150





15147N 18423E alt. 7680 RWY 6-24

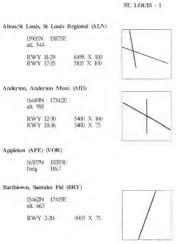
4705 X 100

15374N 1928SE

114.9

Woodrum (ODR) (VOR) freq.

AIRPORT	DIRECTORY - CINCINN	ATI AR	EA		CINCINNATI AREA CHART
CITY	AIRPORT	NORTH	EAST	ALT	SCENERY DISK REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Ashland Beckley Bristol/Johnson/Kingsport Charleston Charleston Charlottesville Circleville Clarksburg Columbus Columbus Columbus Columbus Columbus Elkins Gallax/Hillsville Greensboro Hot Springs Huntington Lewisburg Lynchburg Marion/Wytheville Martinsville Morganlown Mount Airy Parkersburg Roanoke Springfield West Jefferson Wheeling Wilmington Winston Salem Wise	Boyd Co., KY (128) Raleigh County Mem. (BKW) Tri-City Reg (TRI) Yeager (CRW) Albemarle, VA (CHO) Pickaway County Mem. (CYO) Benedum, WY (CKB) Bolton Field (214) Port Columbus Intl (CMH) Cumberland Muni (CBE) Darwille Regional (DAN) New River Valley (PSK) Randolph Co., WY (EKN) Twin County (HLX) Greenville Municiple (GCY) Piedmont Triad Intl (GSO) Ingalls Field, VA (HSP) Tri-State/Walker-Long Fid. (HTS) Greenbriar Valley (LWB) Lynchburg Muni/Glenn Fid. (LYH Mountain Empire (5A1) Blue Ridge (MTV) Muni-Hart Field, WY (MGW) Surry County (MWK) Wood County/Wilson Fid. (PKB) Reg./Woodrum Fid. (ROA) Beckley Muni, OH (SGH) Ashe County (NC67) Ohio County (HLG) Airborne Alrpark (ILN) Smith Reynolds (INT) Lonesome Pine	15589	18934 17915 19252	544 2503 1519 981 640 686 1204 905 817 777 571 2106 1988 2699 3792 303 938 2552 928 1246 1214 859 178 1178 1053 3172 1073 971 1073 971 1073 971 1073	NEWCOMERSTOWN APPLETON 111.8 PATTERSON 111.8 PARTERSON 111.8 PARTERSON 111.8 PARTERSON 111.8 PARTERSON 111.8 PARTERSON 111.8 PARTERSON 110.8 PARTERSON 111.8 PARTERSON 111.4 MORGANTOWN MARTTHELLUM MORGANTOWN 111.6 MORGANTOWN 111.6 MARTINSBURG 112.6 MARTINSBURG 112.6 MARTINSBURG 112.6 CHARLOTTESVILLE ALBEMARLE CHARLOTTESVILLE ALBEMARLE CHARLOTTESVILLE ALBEMARLE CHARLOTTESVILLE ALBEMARLE
	LEGEND				WALKER-LONG FLO RANKELLE 106.4 NEWCOMBE AZALEA PARK
200	Civil-Public use airpor	rt			LEXINGTON ARLEY GREENBRIAN VALLEY
*	Restricted/Private-Nor having emergency us				MEMORIAL BECKLEY 112.8
ŵ	Rotating light in oper	ation, sur	nset to se	ınrise	18 WOODRUM
SANTA MONICA ATIS 119.15 175-50	Airport Name Advisory Frequency (Elevation (feet) — Ler			feet)	BLUEFIELD WOODRIUM FIELD ROANOKE REGY WOODRIUM FIELD LYNCHBURG MUNI- 116.8 ROANOKE REGY WOODRIUM FIELD LYNCHBURG 109.2
NAME FREQUENCY ®	VOR				LONDON MOUNTAIN EMPIRE
NAME FREQUENCY ♥	VORTAC (Distance M	easuring	Equipme	nt Able)	GLADE SPRING 110.2 TWIN COUNTY TWIN COUNTY
NAME FREQUENCY 0	VOR/DME				BRISTOL DANVILLE REGIONAL DANV
NAME FREQUENCY 0	Non Directional Beaco	on			SMITH REYNOLDS GREENSBORD
VOR/DME NAME FREQUENCY	If VOR falls directly on a symbol will be shown. shown at the top of the	The VOR			DELANEY 263
AIRPORT NAME ABBRI					KNOXVILLE 118.4
CO FLD INTL	County Field International				North and east coordinates are canted at + 4° (clockwise) to compensate for ortho- gonal coordinate grid overlaid on Lambert con-
MUNI (PVT)	Municipal Private Airport (prior permission before landing)			inding)	formal conic projection Nautical Miles 0 10 20 30 40 50

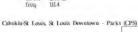


St. LOUIS - 3 2 · ST. LOUIS Bowling Green - Warren County (BWG) Bedford, Virgil I Grissom Muni (BFR) 1589IN DIRIE 15085N 17118E alt: 728 alt. \$48











2805 X 75

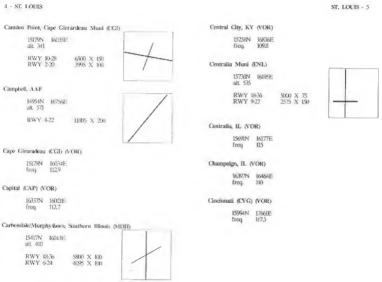
RWY 4-22

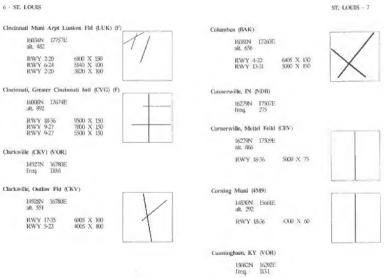


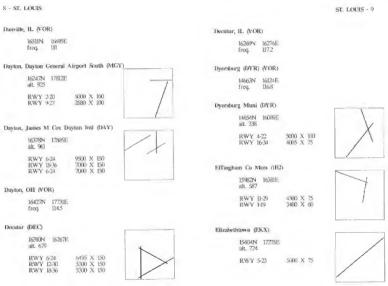
16632N 16852E from.

Bowling Green (BWG) (VOR)

15070N 17110E freq.









ISSEN DINE 157

9025 X 150 5080 X 150

3505 X 100

35593. Pheningken Regional (PASA)

15546N 16727E

alt. 417

RWY 4-22

RWY 18-36

RWY 9-27

BURN BARR THE 545 MWY 256 2075 X (d)



Farmington, MO (VOR)



15807E



115.7



















Frankfort, Capital City (FFT)

15632N 12612F alt. HD4

RWY 6-24

16834N 1745SE 117.8

freq.

5005 X 100







RWY 18-36

Galesburg, IL (VOR)



153/0E 100.8

























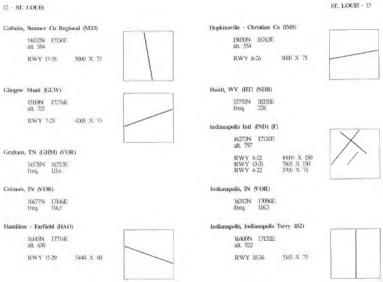




- freq.

- 5000 X 150 5205 X 150





London (LOZ) (VOR)

London - Corbin Arpt - Magee Fld (LOZ)

15173N 17919E. alt. 1214 RWY 5-23 6005 X 150

15640N 17355E alt. \$48

RWY 6-24

RWY 1-19

RWY 14-32

Louisville, Bowman Fld (LOU)



RWY 5-23

alt. 259 RWY 4-22

RWY 13-31

Malden Muni (MAW)

14915N 15888E

5000 X 100 5000 X 80

5000 X 75

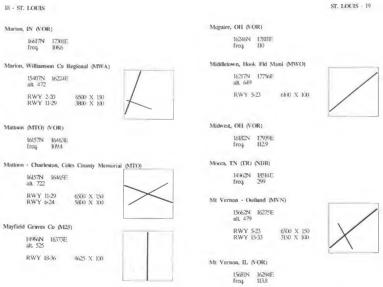


110.4 freq.

15406N 16222E







Muncie, IN (VOR) 16512N 17412E freq 114.4

Mystic, KY (VOR) 1548SN 17148E

frea. 108.2

Nable, IN (VOR) 15792N 17343E free. 112:4

Nashville (BNA) (VOR)

14716N 17038E 114.1 freq.

Nashville, John C. Tune (JWN)

14740N 16973E alt. 492

RWY 1-19 5000 X 100

14718N 17099E alt. 600 RWY 13-31 2505 X 150 RWY 2-20 7705 X 150 RWY 230

15386N 17373E

Nashville, Nashville Metropolitan (RNA) (F)

4305 X 150

New Hope, KY (EWO) (VOR)

110.8 freq.

CHAR (MY) (NDB)

SECTION 17734E 223 Trees.

Ottowwa, 14 (VOR) 16855N freu

15153E 111.6

Owenshoro - Daviess Co (OWB)

IS400N 16852E

alt. 407

RWY 17-35 6500 X 150 RWY 5-23 3700 X 100

Owensboro, KY (OWB) (VOR) 1541IN 16852E 1066

freq.

22 - ST. LOUIS ST. LOUIS - 23 Parlucah, Barkley Regional (PAH) Pontiac, IL (VOR) 15IIIN 16307E 1674ZN 16316E 1096 fresa.

air. 410 RWY 4-22 6900 X 150 4006 X 150 RWY 14-32

Patterson, OH (FFO) (VOR)

16345N 17863E freq. 115.2

fren

Proria, IL (VOR) 16676N 15965E

115.2 Protone, IL (VOR)

16618E 113.2

16937N frequ Perryville (K02)

15455N 15936E alt. 371

RWY 1-19

5500 X 100

Richmond (RID) (VOR)

16300N 17/01565 fron. 110.6 Richmond Muni (RID)

16309N 17604E alt. 1141

Poplar Bloff, Earl Fields Mem (POF) 14980N 15774E alt. 331

4005 K 100

5205 X 150

5015 X 150 3615 X 150

RWY 18-36

RWY 6-24 RWY 15-33 RWY 10-28

Roberts, IL. (VOR)

16637N free.





Pucket City, IN (PXV) (VOR) 16648E

1549IN fren

ST. LOUIS - 27 26 - ST. LOUIS

Springfield, Capital (SPI) 16314N 16002E

frea.

alt. 597 RWY 4-22

RWY 12-30 RWY 18-36

Springfield, OH (VOR) 16358N 17916E



113.2 Springfield-Beckley Muni, OH (SCII)

8000 X 150

5300 X 150

5300 X 150

16364N 17929E alt. 1073

RWY 7-25 5000 X 75 RWY 4-22

9000 X 150







St. 452 RWY 826 RBY SA

St Lands, Spirit of St Louis SES

20081N 15624E

2000 N 156

3321 75 75

St Louis 18502 (VCR) DESIGN INVEST



SHIP 187/2

Service OH (CS4) ACCHO 35432N 1824E

Ireq. Tirro Diseas, Bulmas Registed SSUE)



alt. 584 RWY 5-23 RWY 13-31



Terre Haute, IN (VOR)

16168N 16809E freq. 115.3

Trov, IL (VOR)

1584DN 15920E frou. 116

alt 341

RWY 1-19

Union City, Everett - Stewart (UCY) 14817N 16237E

5000 X 100

Vandalia (VLA) (VOR) 15992N 16173E

freq. 114.3

Walnut Ridge (ARG) (VOR)

14706N 15554E freq. 114.5

Walnut Ridge Regional (ARG)

147HN 15563E alt. 276 RWY 4-22 5000 X 150 RWY 13-31 5000 X 150



Waverly, Humphreys Co (0M5)

14708N 1667LE alt. 745 RWY 3-21 4005 X 75



Wolf Lake, IN (VOR)

16946N 17351E froq. 110.4

Wright-Patterson AFB 16348N 17867E

alt. 823 RWY 5-23

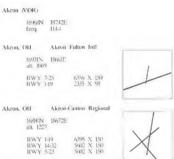
RWY 5-23

12605 X 305 4750 X 150



AIRPORT DIF	ECTORY - ST LOUIS AREA CHAR	T	ST LOUIS AREA CHART
CITY AIRPORT	NORTH EAST ALT ILS ATIS	VASI	SCENERY DISK REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Atton/St Louis Anderson Muri / Anderson Muri / Anderson Muri / Samules Fid (BR Bedford Sind) Fid (Br Bedford S	JD) 16449 17342 918 1 17342 918 1 17342 918 1 17342 918 1 17349 633 1 17349 633 1 17349 633 1 17359 1	29,20L20R,8.24	CAMPAIGN DAYTON 110.0 SPRINGFIELD 111.0 ANDERSON MINI 2 ANDERS
Cincinnati Clarkoville Connieraville Conneraville Elegature Elegatu	1 4928 1 6790 551 1 4929 1 7500 886 1 4830 1 5681 222 1 978 South (MCY) 1 8247 1 7812 925 1601 Intl (CAY) 1 8378 1 7805 981 1 8910 1 1857 679 1 8910 1 1857 679 1 8910 1 1857 679 1 8910 1 1857 679 1 8910 1 1857 679 1 8910 1 1857 679 1 8910 1 1857 679 1 8910 1 1857 679 1 8910 1 1857 679 1 8910 1 1857 1 1875 774 1 8910 1 1877 6774 1 8910 1 1878 1 1877 6774 1 8910 1 1878 1 1877 6774 1 8910 1 1878 1 1879 7 1879 1 8910 1 1878 1 1779 7 109.3/4L 125.35 1 8910 1 1878 1 1878 1 1878 1 110.1 126.3 1 8910 1 1878 1 1879 1 1879 1 8910 1 1879 1 1879 1 110.3/1 181.15 1 8910 1 1780 1 1891 1 110.1 126.3 1 8910 1 1780 1 1891 1 110.1 126.3 1 8910 1 1780 1 1891 1 1790 1 181.15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	13	JACKSONVILLE MUNI JACKSONVILLE
Charleston Mayfield Mayfield Graves C Moddietown Mt Vermon Natarivitie National Mura (F Heidas Merru, Richmond Mura (F Nosymon Mura (R Nosymon Mu	MO) 18217 17756 449 18682 18275 479 19 184740 18972 492 18740 18982 407 18411 18882 407 18411 18309 371 18410 18983 371 18410 18784 331 180) 18980 402 1874 331 180) 18980 402 1874 381 1800 18794 1141 1800 18037 1729 584 18314 18002 597 18334 18002 597 18334 18002 597 18334 18002 597 18334 18002 597 18334 18002 597 18334 18002 597 18334 18002 597 18341 18573 004 18341 18573 004 18341 18573 004 18341 18573 597 18584 1879 1884 1879 1884 18773 1884 1879 1879 1884 1879 1879 1884 1879 1879 1884 1879 1879 1884 1879 1879 1884 1879 1879 1884 1879 1879 1884 1879 1879 1884 1879 1879 1884 1879 1879 1884 1879 1879 1884 1879 1879 1884	13,20R,2R,20L 13,20R,2R,20L	FARMINGTON RED PERRYVILLE MARION, IL 110.4 POOPET CITY 110.8 PARMINGTON RED POOPET CITY 110.8 POOPET CITY 110.8 PARMINGTON RED POOPET CITY 110.8 POOPET CIT
_	LEGEND		CORNING MUNI MALDEN MUNI COARMISSION TOBA
SANTA MONICA ATIS 119.15 175-50	Civil-Public use airport Restricted/Private-Nonpublic use airp having emergency use or landmark v Rotating light in operation, sunset to Airport Name Advisory Frequency (if available) Elevation (feet) — Length (hundreds	alue sunrise	WALNUT RIDGE REG WALNUT RIDGE DYERSBURG MUNI DYERSBURG DYERSBU
NAME FREQUENCY ®	VOR		Naurical Miles 0 10 20 30 40 50

DETROIT - I





Alma, MI Gratiot

18642N 12867E freq. 1063

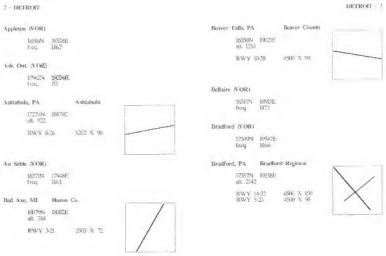
alt. 751

17845N 1756/E RWY 9-27

4958 X 72

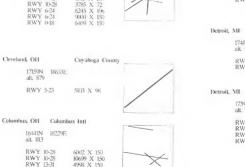
Alpena (VOR)

RWY 18-36 3201 X 72



DETROIT - 5 4 DETROIT Brantford, ONT Brantford Carlisle, PA Carlisle 16723N 20104E 12820N 18931E alt. 813 alt. 515 RWY 5-23 RWY 10-28 4008 X 39 498 X 98 RWY 11-29 2997 X 98 RWY 11-29 2997 X 98 2997 X 98 RWY 17-35 RWY 17-35 2997 X 98 RWY 5-23 2459 X 98 Centralia, ONT Huron Airpark 17897N 18558E alt 823 RWY 10-28 SHI X 150 Bryan, OH William Co. 4401 X 150 RWY 16-34 17046N 17660E RWY 4-22 3201 X 150 alt. 731 RWY 7-25 5005 X 72 Clarion (VOR) 17D43N 19300E freq. Buffalo (VOR) Cleveland, OH Burke Lakefront 17839N 1947SE 17133N 18571F freq. 1164 alt. 584 6199 X 150 Buffalo, NY Greater Buffalo Intl RWY 6-24 5202 X 98 RWY 6-24 17841N 19450E. alt 725 RWY 5-23 8101 X 150 RWY 14-32 5379 X 150

6 · DETROIT DETROIT - 7 Cleveland OH Cleveland Hopkins Intl (F) Coshocton, OH Richard Downing 17078N 18518E 16609N 18558E alt. 790 alt. 977 RWY 10-28 6015 X 150 RWY 4-22 4113 X 72 RWY 10-28 3785 X 72 RWY 6-24 6245 X 196 RWY 6-24 9000 X 150 RWY 0-18 6409 X 150



4480 X 150

RWY 5.23



10502 X 196

9997 X 150

8698 X 196

8501 X 19b

Detroit City

17485N 18115E

alt. 640

RWY 3-21

RWY 3-21

RWY 9-27

RWY 3-21

Detroit, MI Willow Rum Elmira (VOR) 1754SN 201301-17398N 17954E alt. 715 freu RWY 5-23 7524 X 150 Elmira, VV Chening Regional RWY 5-23 6688 X 157 7294 X 157 RWY 9-27 17583N MISIE RWY 9-27 65H X 157 RWY 14-32 6914 X 157 alt. 954

8 - DETROIT

DETROIT - 9

RWY 6-24 6999 X 150 5195 X 150 RWY 10-28 Dryer (VOR) Erie (VOR) DUNN 18423F 17387N 18999E freq. 1136 110.8 freq.

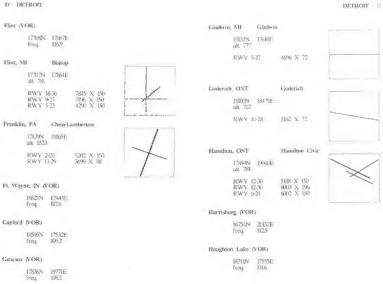
Du Bois PA Du Bois-Jefferson County Erle, PA Eric Intl 17079N 19487E

17422N 19030E alt. 731 alt. 1917 RWY 7-25 5503 X 98

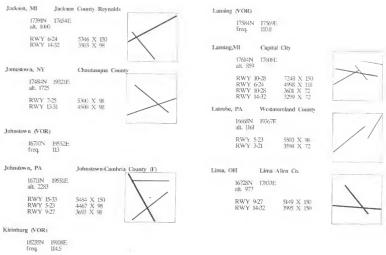
RWY 6-24

			RWY		3529 X LS0	1	
Dunkirk, NY	Dunkirk Muni	Findlay,	OH	Findlay		6 July Stephen - Parkey	
	19300E	I tortam,	16863N	,		-	1
alt. 692			alt. 813	11.44757		5	

17630N 19300E	Findiay, Off Findiay	-
alt 692	16%3N 17442E alt. 813	
RWY 624 4928 X 95 RWY 15-33 4001 X 98	RWY 7-25 4000 X 98 RWY 18-36 4000 X 98	



12 - DETROIT - 13



DETROIT - 15 14 - DETROIT London, ONT London Meadville, PA Port Meadville 17902N 18683E 17227N DMIE alt. 912 alt. 1404 RWY 15-33 8796 X 196 RWY 7-25 4000 X 72 RWY 9-27 6297 N 196 RWY 5-23 3175 X 150

alt. 1286

RWY 14-22 9000 X 150

RWY 5-23 676 X 150

Markite, MI Markite

Markite, MI Markite

RWY 9-27 49-8 X 96

Markette, MI Markette

12875N 17859E
alt. 784

12875N 18664E
alt. 886

RWY 9-27 498 X 98

RWY 9-27 3798 X 72

RWY 1-19 3803 X 72

Ningara Falls Ind

RWY 1-39 390 N 72 Ningara Falls NY Ningara Falls Ind 1798N 19374F als 591 RWY 10-28 9024 X 140 RWY 10-28 3975 X 72 RWY 6-24 9012 X 150 RWY 10-28 1975 X 72 RWY 6-24 9012 X 150 RWY 10-28 1975 X 72 RWY 6-24 9012 X 150 RWY 10-28 1975 X 72 RWY 6-24 9012 X 150 RWY 10-28 1975 X 72 RWY 6-24 9012 X 150 RWY 10-28 1975 X 72 RWY 6-24 9012 X 150 RWY 10-28 1975 X 72 RWY 6-24 9012 X 150 RWY 10-28 1975 X 72 RWY 6-24 9012 X 150 RWY 10-28 1975 X 72 RWY 6-24 9012 X 150 RWY 10-28 1975 X 72 RWY 6-24 9012 X 150 RWY 10-28 1975 X 72 RWY 6-24 9012 X 150 RWY 10-28 1975 X 72 RWY 10-28 1

16 - DETROIT Pittsburgh, PA Campbell Oshawa, ONT Oshawa

RWY 4-22 2669 X 150 Pittsburgh, PA Geester Pittsburgh Intl (F) Peck (VOR) 1673333 899942 17855N 18182E a't. 1378 fron 114 RWY WEST 105 2 X 150 114 N X 196 RWY 10-28 Philipsburgh, PA Mid-State RWY 10-28 8630 X 150 NES X 180 RWY 14-32 1698DN 19769E alt. 1948 Pontiac, MI Oakland-Pontiac RWY 16-34 5713 X 98

Phillipsburg (VOR) 17001N 1070SE fren. 115.5

> 16684N 19195E alt. 1253

RWY 10-28

RWY 13-31

RWY 5-23

RWY 6-24 SUS X 98

18256N 19351E.

RWY 8-26

2650 X 150 RWY 12-30 3476 X 150

alt. 459

Pittsburgh, PA Allegheny Counts

6SO X 150

3824 X 98 2532 X 98



RWY AND RWY DEW Port Huron, MI

175875 136766 alt. 95 RWY LET

MATUN 19865

RWY 13-31

alt. 1210

St. Clair Co. Intl.

17715N 18251F alt 649

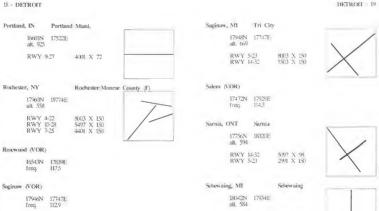
RWY 4-22 5103 X 98 RWY 10-28

2445 X 72

379 X 150 3717 N 72 2033 X 72 1843 X 52

5011 X 72

DETROIT - 17



Saginaw, MI

RWY 5-23

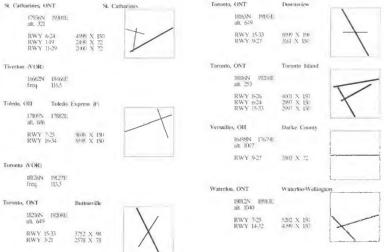
MI Browne 17908N 17819E alt. 600 RWY 9-27

3503 X 72

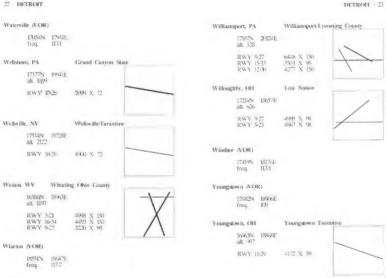
3102 X 59

RWY 18-36

2177 X 52



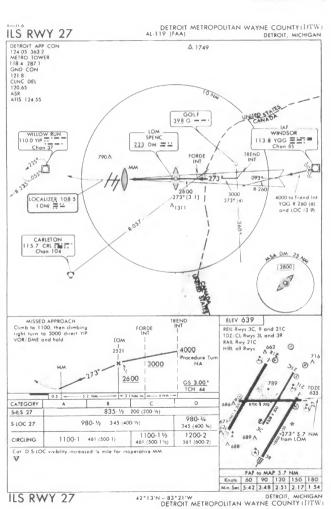
DETROIT - 21



24 - DETROIT Youngstown, OH Youngstown Muni.







AIRP	ORT DIRECTORY	Y - DET	ROIT A	REA	_	DETROIT AREA CHART
СПУ	AIRPORT	NORTH	EAST A	LT. F I	ILS wy.Freq)	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION
Akron, OH Akron, OH Akron, OH Akron, OH Ama, Mi Beaver Falls, PA Bad Axe, Mi Beaver Falls, PA Brantlord, Ont. Bryan, OH Buffalo, NY Carlisle, PA Centralia, Ont. Cleveland, OH Cleveland, OH Cleveland, OH Cleveland, OH Columbus, CH Coshocton, OH Detroit, Mi ATIS 124.5 Detroit, Mi Du Bois, PA Dunkirk, NY Emira, NY Erie, PA Findlay, OH Fint, Mi Franklin, PA Gladwin, Mi Goderich, Ont. Hamilton, Ont. Jackson, Mi Jamestown, NY	Akron Fulton Inti Akron-Canton Regional Gratiot Ashtabula Huron Co Beaver Co Bradford Regional Brantford William Co Greater Buffalo Int' Carlisle Huron Airpark Burke Lakefront Cleveland Hopkins Inti Cleveland Hopkins Inti Cuyáhoga Co Columbus Inti Richard Downing Detroit City Detroit Metro Wayne Co Willow Run Du Bois-Jefferson Co Dunkirk Muni Corning Regional Erie Inti Findlay Bishop Chess-Lamberton Gladwin Goderich Hamilton Civic Jackson Co. Reynolds Chautauqua Co	NORTH 16931 18880 17845 17274 18079 16850 17957 17870 17046 17841 166723 17897 17133 17078 17159 17491 17491 17583 17422 16863 17707 17129 18133 18101 17894 17394	18661 14 18672 12 17560 18879 2 18879 2 18931 8 18931 8 18931 8 18571 7 18571 8 18571	ILT. F (Faul) (Pia. 1992) 1016 1017 1017 1017 1017 1017 1017 1017	ILS hy/Freq)	FLIGHT SIMULATOR II REFERENCE CHART. NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION. Contain the contained by the contain
Franklin, PA Gladwin, MI Gladwin, MI Goderich, Ont. Hamilton, Ont. Jackson, MI Jamestown, NY Johnstown, PA Lansing, MI Latrobe, PA Lima, OH London, Ont. Mansfield, OH Mariette, MI Meadville, PA Mt. Pleasant, MI Niagara Falls, NY Oshawa, Ont. Philipsburgh, PA Pittsburgh, PA Saginaw, MI Port Huron, MI Port Huron, MI Port Haron, MI Schester, NY Saginaw, MI Samia, Ont. Sebewaing, MI St. Cathanines, Ont Toledo, OH Toronto, Ont. Toronto, Ont.	Chess-Lamberton Gladwin Goderich Hamilton Civic Jackson Co. Reynolds Chautauqua Co Johnstown-Cambria Co Capital City Westmoreland Co Lima Allen Co London Mansfield Lahm Muni Marlette Port Meadville Mt. Pleasant Niagara Falls Int'i Oshawa Mid-State Allegherry Co Campbell Greater Pittsburg Intl 5 Oakland-Pontlac St. Clair Co. Intl Portland Muni Rochester-Monroe Co Tri City Samia Sebewaing St. Catharines Toledo Express Buttonville Downsview Toronto Island	17129 18133 18101 17894 17391 17484 16711 17614 16668 16728 17802 16811 17875 17227 17975 18256 16980 16684 16879 16733 17587 17715 16601 17960	19165 15 7610 7 18479 7 19060 7 17654 10 19321 17 19551 22 17608 8 19633 9 18633 9 18633 9 18633 9 18633 9 18634 12 18064 8 19041 14 17536 7 19374 5 19374 5 17536 12 19094 12 177979 9 19175 16 17522 9 19774 5 17527 6 17528 17529 17747 6 18320 5 17934 5 17934 5 17934 5 17938 5 17882 6 19208 2 19208 2 19208 2	228	108.9	TOLEDO EXPRESS DRYER TOLEDO EXPRESS
Versailles, OH Waterloo, Ont. Wellsboro, PA Wellsville, NY Weston, WV Williamsport, PA Willoughby, OH Youngstown, OH Youngstown, OH	Darke Co Waterloo-Wellington Grand Canyon State Wellsville-Tarantine Wheeling Ohio Co Wmsport-Lycoming Co Lost Nation Youngstown Executive Youngstown Muni	16498 18012 17377 17514 16586 17187 17214 16963 17050	17679 100 18910 10- 19941 180 19728 21: 18963 11: 20124 5: 18657 6: 18868 9: 18908 11:	40 99 22 97 28 26		Nautical Miles 0 10 20 30 40 50 Statute Miles 0 10 20 30 40 50 North and sest coordinates are canted at + 5° (clockwise) to compensate for orthogonal coordinate grid overlaid on Lambert conformal conic projection.

Alpena (VOR) 18642N 17887E. 1088 free

Alpena, MI 18630N 17885E. alt. 689

Phelos Collins

9000 X 150 903L X 180

503L X 150

RWY 13-31 Ash, Ont. (VOR)

RWY 1-19

RWY 7-25

12062N 19124E fren. 115 Au Sable (VOR)

frea.

Coehill (VOR)

DESTIN 1704SE 116.1

BIGUN BIGUE fren.

Earlion, Ont. Earlton

19858N 18902E alt. 797 RWV 7/25

8002 X 150

Gladwin, Ml Gladwin

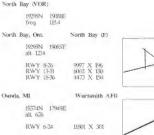
183UN 17555E

freq. 111.6

Midland (VOR)

DUSTE 1128 frea

4 - LAKE HURON







RWY 14-32

4001 X 98



LAKE HURON - 5



17855N freq

freq.

Pellston (VOR)

18182E

189GN 17534E

114 111.8 Sault Ste Marie, Out. Sault Ste Marie 19232N 17564E alt. 1689 RWY 4-22 6002 X 196

RWY II-29 6002 X 196

Soulte Ste Marie, MI Chippewa Co Intl 19132N 17583E alt. 900

RWY 16-34

18506N 19703E 113.5

7202 X 196

18666E 112.3

19371N freq. Sudbury, Out. Sudbury (F)

RWY 12-30

Stirling (VOR)

freq. Sudbury (VOR)

> 19368N 18667E alt. 1141 RWY 4-22 6599 X 196

4998 X 196

Val. D' Or (VOR)

Toronto (VOR)

Wiarton (VOR)

freq.

alt. 728

frea. 113.3

20127N 1946NE freu. 113.7

18126N 19127E

Val D' Or, Que. Val D' Or (f) 20077N 19483L alt 1105

RWY 0-18 9997 X 196

1855IN 18547E

Wiarton, Ont. Wiarton

18550N 18645E.

RWY \$-23 4919 X 150















Amdt 2 PITTSBURGH/GREATER PITTSBURGH INTL (PIT) ILS RWY 28L AL-570 (FAA) PITTSBURGH, PENNSYLVANIA PITTSBURGH APP CON 123 95 360 8 PITTSBURGH TOWER 119.1 236.6 GND CON 121 9 348.6 CLNC DEL 126.75 ATIS 12725 LOCALIZER 108.9 I- PFS PHILI 1277 MM (IAF) MONTOUR HAUN INT 112.0 MMJ== 4000 to MMJ 10.1 DME 4000 to GS intercept Halin Int Chan 57 MMJ 10.1 DME 3000 LOC only 098° (10 1) 3100 ALLEGHENY 110 0 AGC Chan 37 Simultaneous approach authorized with Rwy 28R HALIN IN **ELEV 1203** Rwy 28C ldg 8049' PITT 7 MMJ 10 1 DME OM, INT MISSED APPROACH Climb to 1800 then climbing left turn 279° 5 NM 2801 to 4000 on 180° heading then direct One Minute Holding Pottern from OM/Int AGC VORTAC and hold 0999-4000 1369 1208 TOZE 0502 8 150 279% 3000 when 1249 tLOC only authorized by ATC CATEGORY 1326/20 1326/24 S ILS 281 1326/18 200 (200-1/2) 11 500 1 700 200 (200-1/1) 200 (200 %) 1620/40 1620/50 1620/60 1620/24 494 (500 %) 5 LOC 28L 494 (500-11/4) 494 (500-%) 494 (500 1) 1620-11/2 SIDESTEP TDZ. CL Rwys 101 and 281 1620-2 484 (500-2) 1620/50 484 (500-1) RWY 280 484 (500-11/2 HIRL Rwys 101-28R, 10C 28C 1700-11/2 10R 28L and 14-32 1760 2 557 (600 2) 1700-1 497 (500 1) CIRCLING 497 (500-11/2 FAF to MAP 5 NM
Knots 60 90 120 150 180
Min Sec 5:00 3 20 2 30 2 00 1 40 Cal E, S LOC 281, increase visibility 1/2 mile for inoperative MALSR PITTSBURGH, PENNSYLVANIA ILS RWY 28L 40 29 N 80 14 W

PITTSBURGH/GREATER PITTSBURGH INTL (PIT)

AIRPORT DIRE	ECTORY - LAKE HURON AREA	LAKE HURON AREA CHART				
CITY AIRPOR		FLIGHT SIMULATOR II		NOT TO BE USED FOR REAL WORLD AER	IAL NAVIGATION.	
Alpena, MI Phelps C Earlton, Ont. Earlton Gaylord, MI Otsego C Houghton Lake, MI Roscom Manitoulin, Ont. Gore Ba North Bay, Ont. North Ba Oscoda, MI Wurtsmill Pellston, MI Pembroke, Ont. Pembrok Sault Ste Marie, MI Sault Ste Sault Ste Marie, MI Chippew Sudbury, Ont. Sudbury Val D' Or, Que. Val D' O Wiarton, Ont.	Collins 18639 17885 689 19858 18902 797 Co 18595 17533 1328 mon Co 18311 17557 1151 y 19008 18163 636 y 19295 19085 1214 h AFB 18374 17949 626 Co 18836 17493 722 co 19159 19761 528 cint Marie 19236 17605 715 b Marie 19232 17564 1689 a Co Intl 19132 17583 800 19368 18667 1141	Nautical Miles 0 10 20 30 40 50 Statute Miles 0 10 20 30 40 50			VAL D' OH 113.7	
	North and east coordinates are canted at + 5° (clockwise) to compensate for orthogonal coordinate grid overlaid on Lambert conformal conic projection.			SUDBURY NORTH BAY	VAL D' OR	
8 0 0	Civil-Public use airport Restricted/Private-Nonpublic use airport, having emergency use or landmark value	SAULT STE MARIE	E L	SUDBURY 115.4		
Rotating light in operation, sunset to sunrise		Hura	**	NORTH BAY	white .	
SANTA MONICA ATIS 119.15 175-50	Airport Name Advisory Frequency (if available) Elevation (feet) — Length (hundreds of feet)	CHIPPEWA CO INTL		The same of the sa	PEMBROKE	
NAME FREQUENCY ®	VOR	PELLSTON 111.8 GÖRE É			KILLALOE	
NAME FREQUENCY P	VORTAC (Distance Measuring Equipment Able)	EMMET CO			and the same of th	
NAME FREQUENCY	VOR/DME	GAYLORD 109.2	3	WIARTON	COEHILL	
NAME FREQUENCY 0	Non Directional Beacon	OTSEGO CO PHELPS COLLINS	4	1177	115.1	
VOR/DME_ NAME FREQUENCY	If VOR falls directly on an airport, only the airport symbol will be shown. The VOR facility type is shown at the top of the box.	HOUGHTON LAKE 111.6		7 1		
AIRPORT NAME ABBREVIA CO FLD INTL MUNI (PVT)	CTIONS County Field International Municipal Private Airport (prior permission before landing)	ROSCOMMON S		MIDLAND 112.8	STIRLING 113.5	

SubLOGIC Scenery Disks are grouped by aeronautical sectional. Each SD covers a geographical region of the United States, generally comprised of three sectionals.



In addition to Newter regional Scenery Disss, a number of STAR Scenery Disss, are also available A STAR Scenery Diss covers a small area, whi a relatively dense amount of scenery These disses are mainly intended for visual flight (sight-seeing). They include buildings and landmarks, as well as defailed renditions of the major are ports in the area.

Reading a Sectional Directory

Below is a sample fishing from a sectional directory with a description of the information provided. All available arports and radio-nav axis for a given sectional are fished alphabet any Pladio trainers fiers that bother a sectional are also available on resignoring sectionals, so you can cross sectional boundaries when instrument flying.

- -11703h (55%)
 free, 411

 . Pago number
 2 Sestion! nime
 3 Airport name
 4 Worth clordinate
 6 All Idde in fet
 7 Ruway Jesigna ore, member
 8 Ruway meel ons in feet
 9 Bado Ald name
 2 Idde of the feet
 1 Bado Ald freework
 1 Bado Ald freework

Notice that the vertical sides of the airport map align with magnetic north. Magnetic north is the direction you are pointing when your magnetic compass, reads 0. Each sectional map is VOR needles point toward magnetic north. The sides of the map align with true north. This is consistent with NOAA sectionals. U.S. Scenery Disk areas are grouped as follows:

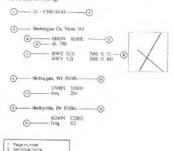


Schmidt Didds for older years of the world are also available. Japan Schmidt Dids coties the starts stort (Skyb to Stake in grant detail. Western Europian Tour "Baskery Tails and tellar "Mestern Europian Tour "Baskery Tails, but/dids storated scenery powering southern Great Brisson Tour "Baskery Tails, but of the Start Brisson Schmidt Was Germany, with a side trop to Red Square in Modesow San Francisco Scenery Dids covers the Bay area in great detail, and is designed or invanity for local areas similatering.

Scenery Bisks are available in 5-1/4" and/or 3-1/2" disk format for most computer systems. Contact SUELOGIC for information on which scenery areas and disk formats are currently available for your system.

Reading a Sectional Directory

Below is a sample issing from a sectional directory with a description of the information provided. All available airports and ratio-nav aids for a given sectional are itself airbitotically. Radio transmittes that border a sectional are also available on neighboring sectionals, so you can cross sectional boundaries when informer fution.



4 North boordinary 5 East operange 0 Athlete in fact 7 Rennary Designant, number 9 Redio Aid name 10 Redio Aid hym designator 1 Redio Aid housency

Armon name

Notice that the vertical sides of the airport map align with magnetic north. Magnetic north is the direction you are polinting when your magnetic compass reads 0. Each soctional mar/s VOR needles point toward magnetic north. The sides of the map align with true north. This is consistent with NOAA sectionals.

Reading a STAR SD Sectional Directory

This Star SD sections directory lists all available separts in alphabetical order, followed by all reductions as Each expect moledes a detailed diagram of the artport as it appears on the disk. Alsport and radio-ray aid listings are organized as follows:

(Airport Diagram)

O-Alpine

I Page fumber 2 Sactional name 2 Sactional name 3 Sactional name 4 Morth coordinate 5 tast coordinate 5 Altitude in feet 7 Summay Designation in Feet 9 Sadio And name 10 Sadio And type designation 11 Radio And Frequency

The vertical sides of each airport diagram align with magnetic north. Magnetic north is the direction you are powring when your magnetic compass reads 0. Each socional map's VOR needles point toward magnetic north. The sides of the map align with true north. This is consistent with NOAA sectionals.

Using a Scenery Disk with Flight Simulator II

Load Fight Simulation III in the issual way. When the program has firmlend training metric the simulating in program shades, to geterable in proceeding mensional and set the NORTH and SAST Coordinates of the airport you've chosen from the defloring for three programs of the program of the p

When you find yourself at the amport you we selected, in may be a good sidea to save your position to a User Mode (see User Mode Ubrary in the FSII Pilot s Operating Facilities). This way, If you clean you will be returned to the selected airport. Otherwise you will be returned to a present focation (above Lake Michigan) in the default USA d'Atablese.

Crossing a Sectional Boundary

When you if your a sectional boundary, then of two things will occur if the major bear as sectional boundary, can not two things will occur if the major possible of the section of the se

If you have another Scenery Drax containing the appropriate soctional, you can switch disks and press CTFLE to logge in the new drax. After a brief lead, the names of the new sections a switch on this drax will be displayed Press any key to get a not result in the Fight Simulator II.

IMPORTANT - If you want to change Scenery Disks or go back to the scenery on the FS2 disk, you must log-in the new disk by preseng CTRLE. If you do not log-in the new disk, you will not get the new scenery and you will risk causing a disk load error.

Using a Scenery Disk with Microsoft Flight Simulator (IBM PC Versions)

Load Flight Simulator in the usual way. When you want to switch to a Scenery Disk, remove the Flight Simulator disk and insert the appropriate Scenery Disk, Press CTAL E. This will log-in the disk. A measage will appear on the screen identifying the names of the sectional srees contained on the disk.

The first Sponery Dask login automatically checks to sale if you have the most recent vession of Fight Similator. If you don't, the orgoganic updates Riight Simulation in memory. When this happens, your flight coordinates are set back to the Chicago area. They sill only happen on the limit Scenery Dask login of the season. After the first login, your flight coordinates and conditions will carry over as you change. Somery Disks or the conditions are set of the conditions will carry over as you change. Somery Disks or the conditions are set of the conditions will carry over as you change. Somery Disks or the conditions are set of the conditions are set of

After logging in the first Scamery, Osis, you can't fir or skew through all of the scenery on the disk You can freely exchange Scenery, Disks as you, five it scenery on the disk You can freely exchange Scenery, Disks as you, five areas. Piress CTFL Et olog -in the new area when you switch disks, I reposit logging an exe. Scenery, Disk after interempt at, If will be subtranstically logging in when the disk is accessed. The log in message will appear after every manual or automatically considerable.

Using the Microsoft Flight Simulator Disk as a Scenery Disk

The Flight Simulator disk bordains all of the usual scenery for the Chicago. Seattle, Los Angeles, and New York areas. You can insort the disk and log it in as you would any other Scenery Disk to this in these areas. This applies to Jef as

Special Note for IBM PC Flight Simulator Version 2.0

well as Flight Simulator

Very fav popies of Version 2.0 exist. You most Meet, have Version 2.1, 2.10, 2.10, 2.10 is start version of Microsoft Rejois Standard. Look or the disk fabel notes the sensal number area, or look on the first menu page when keeting Rejois Standard or I you heave Version 2.0.1 insent the Soonery Dels and priess EBG instead of C141, E for the I ret log in all the session. After this first log in press C77E, E as usuals to go in earn Scherery Dels Albo, novertier entire Version 2.0 dels to use the Change, Delsent 1.08 designes or New York. We will be a change of the C141 of the

Tandy 1000-1200 2000 Flight Simulator

Scenery Disks are compatible with the Tlandy 1000/1200/2000 version of Flight Simulator. With this version, always make aure to log-in a new Scenery. Disk by pressing CTRL E once the disk has been inserted. No auth-load is available on this version, and failure to log-in a new disk can cause unpredictable regulation when the disk's accessed after an unicoped disk chance.

Special Note for Compaq 286 Users

The 1 2Mayte floppy drives in the Compaq Deskpro 286 computer cause diskread errors when using Scenery Disks with SubLOGIO Jet or Microsoft Flight Simulator. Here is the reason why, and how to get around it

PROBLEM. Whenever you remove a disk from the flogoy drive by Lurining the release lives. The diskillation project out of the drive. This pring action triggers, a switch in the drive that informs the disk read winte software that you nevel just changed the disk. The software seasures that you are about to insent wide, and switches to 1.2 Myptir each mode from whatever mode in happens to be under the disk project of the proj

You can verify this for yourself using the Microsoft Flight Simulator. Boot the disk, then enter and exit the editor several times (ESO key) just to see that everything is functioning properly. Then pop the disk out of the drive, re-insert it, and this to get back into the program editor. You will get a disk read error.

SOLUTION - You can avoid mis problem by incomp the dask drive into thirties that you haven or braining of bills. On the by holding the dask in place with your thinger while releasing the calk-missale lever DON TLETTHE DISK POP QUT infiger while releasing the calk-missale lever DON TLETTHE DISK POP QUT infiger while releasing the calk-missale lever DON TLETTHE DISK POP QUT infiger. The missales where the disk and isseed as Science P Dask (or FTRE) the proposed of the propose

Jet Users

Scenery Disck are companish with SubJ,QGC, Jet. Follow the instructions in your def manuals for leading a Samery Dak. Let have no advanted long to true, so always make sum you return to the Jet starting menu stage before making a men Scenery disk. Changing Scenery Daks or the middle of set starting menu aligne before disk and cause unpredictable results when the disk is accessed after a disk change.

Conclusion

As all this witting there are no fuel or repair facilities available on mysike Schowy. Dales (although they do occur on STAA Scenery Disks; To refuel list list that author arront and enter the program soldor. Your tanks will be fitted and repairs will be made when you gut the enter.

Washington to period cally update and improve our Science; Disks to include more all profits ratio bills, and science yet details as recommended by users, if you know of an airport for any other detail) mas should be included on future versions of these Science; Disks, please droug use line and rifuscule the required information CNLA SIEPARATE SHEET OF PAPER (so we can store it in our files). Here's what level ment on know.

Airports:

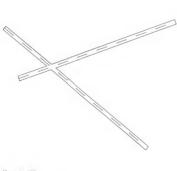
NAME, CITY, & STATE

LATITUDE LONGITUDE, & ALTITUDE HEADING LENGTH & WIDTH pleach runway.

Buildings objects: NAME, CITY, & STATE

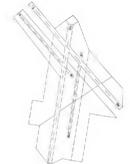
LATITUDE LONGITUDE & DIMENSIONS.

Pictures and postcated are also avelocene, especially aerial views if you're unade at to determine the least used not longitude the fit obsect or approprial question, please provide of description of where the object can be located on a mig. All customer correspondence in east and inswirred (when appropriate). And pleases remember to include any acenery suggestions or information on a SEPARATE case of your letter.



Alameda NA

17492N 5102E alt. 13 RWY 7-25 7200 X RWY 13-31 8000 X



Concord.	Buchanan Fld. (F)	
	17449N 5214E alt. 23	

Antioch 17407N 5295E alt. 185 RWY 9-27

2480 X 33

4601 X 150 2800 X 75 2768 X 75

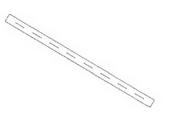
RWY 11-19R

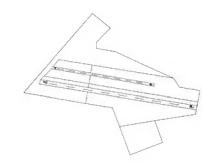
RWY 14L-32R RWY 14R-32L

RWY IR-19L ATIS:

124.7

4712 X 150

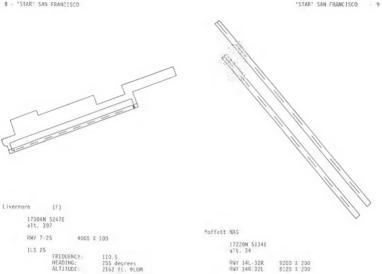




Hamilton Army 17534N 5082E alt. 3

mit. 3 RW* 12-30 8000 X 400 Hayward Air Terminal 17329N 5145E alt. 47

RWY 10R-28L 5159 X 150 RWY 10L-28R 3536 K 75





alt. I 10000 X 150 6242 X 150 3366 X 75 25F 11-29 RWY 98-27L 19eY 15-33 RWY 9L-27R 5453 X 150 128.5 or 125.0 (porth fie

ATIS:

115 11 FREQUENCY: 111.9 HEADING: ALTITUGE: ILS 29

FREQUENCY:

BOADING:

AUTITUDE:

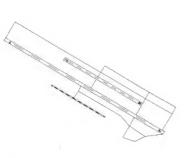
113 degreas 1722 ft. #LON 108.7 293 degrees 1552 FE. 61.0H

Palo Alto

17245N 5119E alt. 5

RWY 12-30

2500 X 65



5an Jose Int'' 17185/ 5184E alt. 58

> FWY 128-301 6899 X 150 8WY 121-308 4419 X 150 FWY 11-29 3000 X 40

AY15: 114.1 1US 128

FREQUENCY: 111.1 HEADING: 123 degrees ALTITUDE: 1798 ft. Joh San Jose, Reid - Hillview

17160N 5194E alt. [33

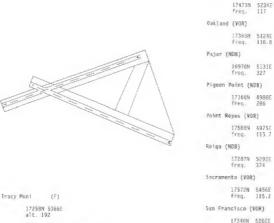
RWY 13L-31R 3101 X 75 RWY 13R-31L 3099 X 75

RWY 7-25

RWY 11-29

3418 X 75

3680 X 100



Oakland (YOR) 17365N 5124E freq. 116.8 Pajar (NDB) 16978N 5131E freq. 327 Pigeon Point (NOB) 17166N 4988E freq. 286 Point Reyes (VOR) 175889 4975E freq. 113.7 Reiga (NDB) 17287N 5292E freq. 374 Sacramento (VDR) 17572N 5456E freq. 115.2 San Francisco (YOR) 17340N 506CE

free. 115.8

Concord (VOR)

18 - "STAR" SAN FRANCISCO San Jose (VOR) 17185N 5164E freq. 114.1 Sausalito (VOR) 17452N S050E Free. 116.2 Scapps Island (VOR) 17567N 51499 freq. 112.1 Travis (VOR) 17565N 5358E freq. 115.4

Woodside (YDR) 17233% 5054E freq. 113.9

CITY	AIRPORT	NORTH	EAST	ALT.	Bre	ILS
Alameda NAS	Nimitz Field	17402	5102	13		
Antioch	Antioch	17407	5295	185		
Concord	Buchanan Field	17449	5214	23	b .	
Fremont	Fremont	17226	5177	4		
Half Moon Bay	Half Moon Bay	17312	5004	67		
Hayward	Hayward Air Terminal	17329	5145	47		
Livermore	Livermore Muni	17304	5247	397	*	25/110.
Mountain View	Moffett Field NAS	17220	5134	34		
Oakland	Oakland Intl	17365	5124	7		11/111.
Palo Alto	Palo Alto	17245	5119	5		
San Carlos	San Carlos	17281	5084	2		
San Francisco	San Fracisco Intl	17340	5060	10	*	28L/109.5
San Jose	San Jose Intl	17185	5164	56		12R/111.
San Jose	Reid-Hillview	17160	5194	133		
San Rafael	Hamilton Army	17534	5082	3		
Tracy	Tracy Muni	17258	5366	192	٠	
	North and east coordina - 20° (clockwise) to con- orthogonal coordinate of	npensate	for	t		
	Lambert conformal con					

	- 20° (cl orthogo	nd east coordinates are canted at ockwise) to compensate for nal coordinate grid overlaid on conformal conic projection.
		LEGEND
er o		Civil-Public use airport
8		Restricted Private-Nonpublic use airport, having emergency use or landmark value
tr .		Rotating light in operation, sunset to sunrise
SANTA MONIC ATIS 119.15 175-50	A	Airport Name Advisory Frequency (if available) Elevation (feet) — Length (hundreds of feet)
NAME FREQUENCY	0	VOR
NAME FREQUENCY	Ÿ	VORTAC (Distance Measuring Equipment Able
NAME FREQUENCY	0	VOR DME
NAME FREQUENCY	0	Non Directional Beacon
VOR/DME NAME FREQUENCY		if VOR falls directly on an airport, only the airport symbol will be shown. The VOR facility type is shown at the top of the box.
AIRPORT NAME	ABBREVI	ATIONS
LD		County Field
NITI		

International

Private Airport (prior permission before landing)

Municipal

INTL

MUNI

(PVT)





Atsugi

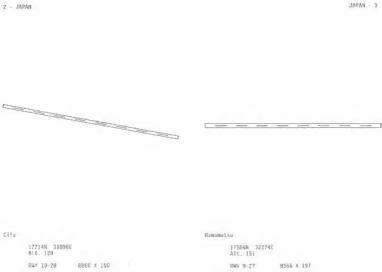
18118N 32707E Alt. 205

RWY 1-19

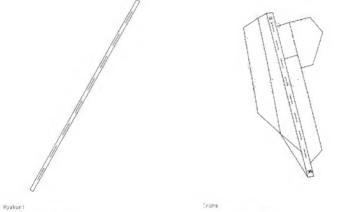
8000 X 150

1LS 1 FREQUENCY: HEADING: ALTITUDE:

1500 @ 4.1 DME

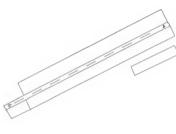


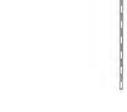
4 - JAPAN JAPAN



18542N 32874E 18262N 32619E A1t. 104 A1t. 299 RWY 3-21 8860 X 150 RWY 17-35 6562 X 148

6 JAPAN JAPAN





Komatsu 18042N 31572E Alt. 18

RWY 6-24

FREQUENCY: HEADING: ALTITUDE:

ILS 6

8860 X 150

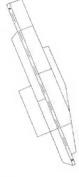
110.1 61 1084 @ 3.7 DME

Matsumoto 18170M 32090E Alt. 2155

RWY 18 36

4920 X 100

B - JAPAN - 9



				B	
lagoya					
	17569 Alt.	N 31932E 52			
	RWY I	6-34	9000 X	150	
	ILS 3	FREQUENC HEADING: ALTITUDE		111.7 339 2312 3	B.4 ONE



18375N 32940E Alt. L39 RNY 16-34 | 13123 X 200 ILS 16

FREQUENCY: 111.1 HEADING: 156 ALTITUDE: 1461 P.3.9 DME ILS 34 FREQUENCY: 111.9 HEADING: 336 ALTITUDE: 1678 P.4.5 DME 10 - JAPAN - 11





Shimofusa 18334N 32819E Alt. 98

RWY 18-36

FREQUENCY:
HEADING:
ALTITUDE:

109.1 186 1998 @ 6.3 DME

7380 X 200

RWY 14L-32R 6000 X 150 RWY 14R-32L 9840 X 200

17267N 31528E Alt. 49 12 - JAPAN JAPAN - 13





103019 3

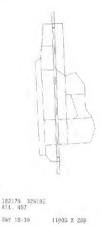
18201N 32787E Alt. 12 RWY 4+19 8200 X 150 RWY 15L-33R 10335 X 200 RWY 15R-33L 9840 X 150

RWY 151-33R 10335 X 200 RWY 15R-33L 9840 X 150 ILS 33R FREQUENCY 110 HEADING: 332 ALTITUDE: 296

200 150 110.9 332 2966 @ 10.5 DME 7ao 17220N 31616E Alt. 33

> RWY 9-27 RWY 13-31

4390 X 150 3940 X 100 14 - JAPAN JAPAN - 15



Yokota

1LS 36

FREQUENCY;

ALTITUDE:

HEADING:

109.7

357 2114 0 7 89%

```
17533N 31976E
        freq. 397
Akeno (NDB)
        17347N 31988(
        freq.
                390
Ani (VOR)
        184514 32839€
        freo.
Atsugi (NDB)
        18119N 32711E
        freq. 265
Chigasaki (NDB)
        18055M 32712E
        freq.
               236
Choshi (VCR)
        18427N 33082E
        freq.
Daigo (NDB)
        18765N 32751E
        freq.
             225
Daigo (VOR)
       187544 32749E
```

freq. 115.3

Aichi (NDB)

Eda (NBS) Hyakuri (VOR) 18172N 92716E 18546N 32873E frug. 357 freq. 113.3

JAPAN 17

Fuko! (NCB) Itami (NDB) 1793QN 31549E 17276N 31516E

16 JAPAN

18547N 32877E

freq. 366

freq. 430 freq. 205 Goboh (VOR)

Iwaki (VOR) 16875N 31373E 19002N 32866E freq 116.9 freq. 117.7

Hamametsu (NDS) Kawakado (NDB)

17580N 32272E 18289N 32578E freq. 229 freq. 251 Komatsu (NDB)

Hamagatsu (VOR) 375WOW 32272E 18048N 31571E

freq. 234

freq. 114.7 Handeda (VOR) Komatsu (VOR)

18202N 32787E 18043N 31569E

freq. 116.5 freq. 112

Hotaka (NDB) Kowa (NDB)

18216N 32062E 17467N 32025E

freq. 387 freq. 325

Hyakuri (NDB)

Kowa (VOR)

17455N 32042E

freq. 113.5

Nagoya (NDB) Kumagaya (NDB) 17666N 31933F 18372N 32530E

360 freq. freq. 240 Nagova (VDR)

Kushimoto (NDB) 1757IN 31928E 16789N 31875F

freq. 114.2 freq. 275

Nanki-Shirahama (NDB) Kushimoto (VOR) 16816N 31698E

16792N 31879E freq. 394 freq. 112.9 Marita (VOR) Matsumoto (VOR)

18376N 32940E 18167N 32095E freq. 117.3 freq. 117.6

Nasu (VOR) Miyakejima (NDB)

18720N 32643E 17594N 32995E frat. 114.8 freq. 260

NTEKO (MIR) Miyakejima (VOR)

1013AN 326ARE 17602N 32970E FFOR. 309 freq. 117.8

Onfide (1998) Miyazu (VOR)

17503N 31318E

112.6 freq.

18 - JAPAN

Moriya (VOR)

18382N 32785E

frea. 114 BUZZER (NOR) grant.

fren. 115:9

DAMERS HTESTS 340

18154K 338495

JAPAN - 19

Osaka (VOR) Sakura (VCR)

JAPAN - 21

17270N 31541E 18366N 32901E freq. 113.9 freq. 112.7 Oshima (NDB1

Sekivado (VDR)

20 - JAPAN

freq. 113.1

Freq. 392

17436N 31631E

17416N 31620E

IB131N 32677F

Freq. 379

1833BN 32890E

freq. 350

117.1 fireg.

freq. 358

Oshima Airport (NDB)

Otsu (NOB)

Otsu (VDR)

Rankin (NDB)

Sakura (NDB)

17843N 328D0F

17813N 32830E

18391N 32727E freq. 216 freq. 117

Oshima (VOR) Shinoda (NDB) 17812N 32830E 17153N 315B4E

freq. 219

17155N 315B7E

freq. 112.3

17696N 32452E

Freq. 109.2

18251N 32630E

freq. 330

18003N 32927E

freq. 373

17996N 32942F

freq. 112.5

Shinoda (VOR)

Shizuhama (VOR)

Tachikawa [NDB]

Tateyama (NDB)

Tateyama (VOR)

22 - JAPAN Tokushima (VOR) 16897N 31367E freq. 114.9

Tottori (NDB) 17391N 30998F freq. 349

Toyama (NDB) 18250N 31774E free. 354

Yao (NDB) 17217N

31618E freq. 386 Yokosuka (NDB)

18041N 32806F freq. 270

Yokosuka (VOR) 180608

freq.

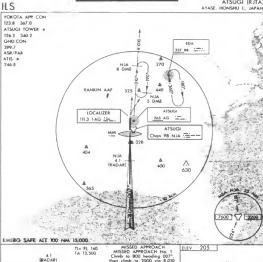
Zama (NOB) freq.

32787E 116.2

18156N 32659E 401

APPROACH CHARTS

厚木飛行場 ATSUGI (RJTA) AYASE HONSHU I., JAPAN



Climb to 800 heading 007", then climb to 2000 via R-010. (RADAR) proceed to 8 DME and hold.

MISSED APPROACH No 2 1500 -007 1500 Climb to 2000 heading 007" proceed to RB NDB and hold 300 TACAN Glide Slope 3.0° 281 CATEGORY 311 S-45 01 377/730m 193 (200 800m) 377/1220m 193 (200-1200m) 660/1520m 660/1830m S-LOC 01 660/1220m 476 (500-1200m) 476(500-1600m) 476(500-2000m) 660-1600m 700-1600m 720-2400m 760-3200m CIRCLING* 455(500 1600m) 495(500-1600m) 515(600-2400m) 555(600-3200m) HIRL RWY 01-19 405/730m 405/1220m S-PAR OI 221 (200-800m) GS 3 0° 221 (200-1200m) GS 3.0° *Circling NA E of Rwy 01/19

301

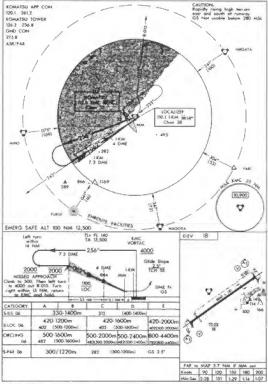
184

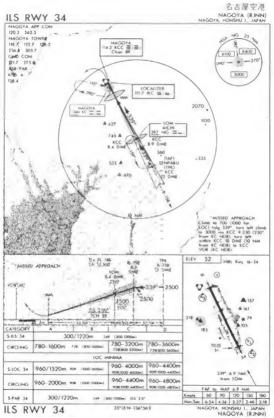
007° to

TACAN

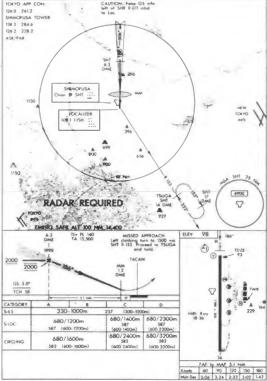
ILS

小松飛行場 VOR/ILS RWY 06 ROMATSU (RANK) ROMATSU (RANK)



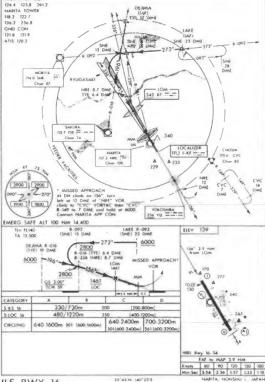


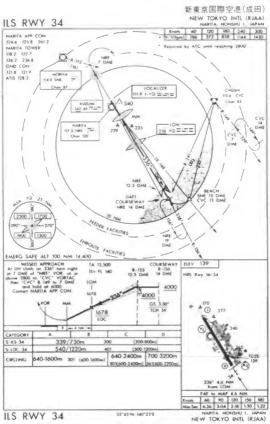
T 総飛行場
SHIMOFUSA (R/III)
IORYO APP CON CAUTION Plant 03 arts
CAUTION Plant 03 arts

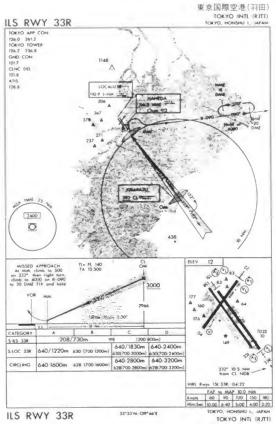


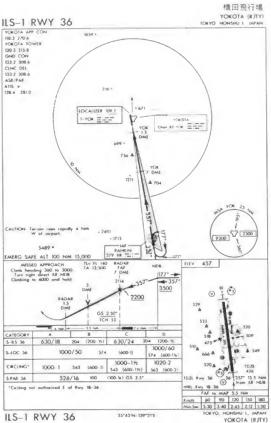
NAPITA HONSHU I JAPAN

ILS RWY 16



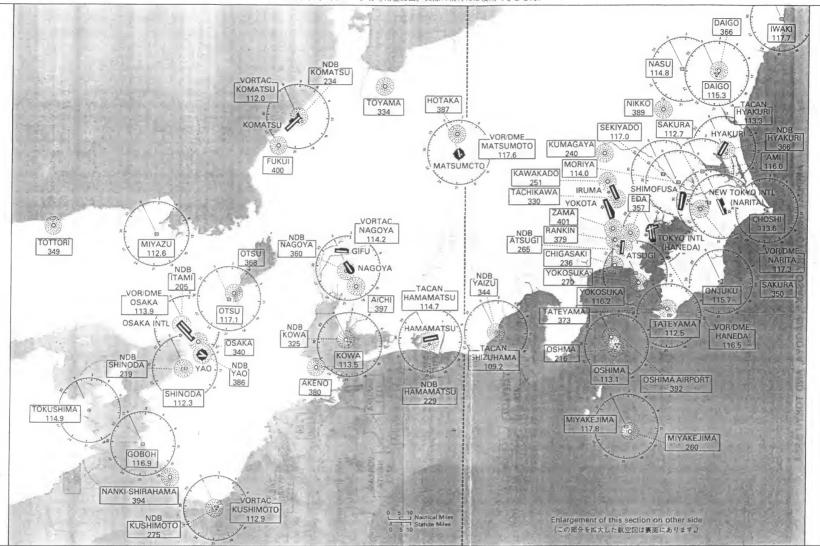






OSAKA, NAGOYA, AND TOKYO AREA CHART

フライト シミュレータ II 専用空路図。実際の飛行には使用できません。

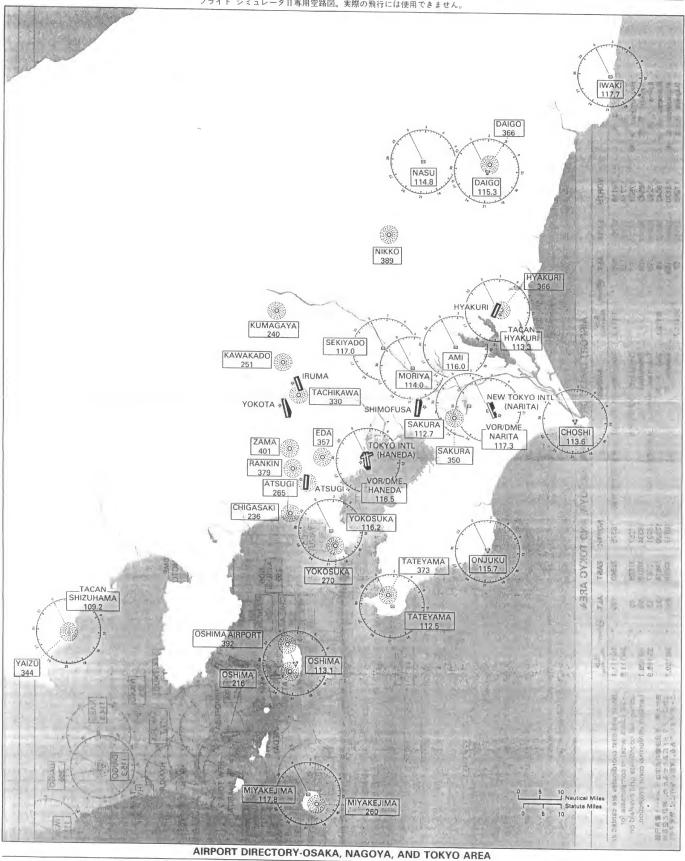


AIRPORT DIRECTORY-OSAKA, NAGOYA, AND TOKYO AREA

AIRPORT	NORTH	EAST	ALT.	F (Fuel)	ILS (Rwy-Freq.)	AIRPORT	NORTH	EAST	ALT.	(Fuel)	ILS (Rwy/Freq.)	
Atsugi 厚 木 Gifu 岐 阜	18118 17714	32707 31890	205 128	*	1/111.3	New Tokyo Intl. (Narita) 新東京国際空港(成田)	18375	32940	139	*	16/111.1 34/111.9	North and east coordinates are canted at +26° (clock wise) to compensate for
Hamamatsu 浜 松	17584	32274	151			Osaka Intl. 大阪国際空港	17267	31528	49	*		orthogonal coordinate grid overlaid on
Hyakuri 百里	18542	32874	104			Shimofusa 下 総	18334	32819	98	*	18/109.1	Lambert conformal conic projection.
Iruma 入間	18262	32619	299	*		Tokyo Intl. (Haneda) 東京国際空港(羽田)	18201	32787	12	*	33/110.9	
Komatsu 小 松	18042	31572	18		6/110.1	Yao 八 尾	17220	31616	33			表の北緯、東経座標の数字はランパート直角円錐
Matsumoto 松本	18170	32090	2155			Yokota 横 田	18217	32618	457		36/109.7	法地図のグリッドにあわせるため、時計と逆方向
Nagoya 名古屋	17669	31932	52		34/111.7							に+26、修正してある。(実際の飛行には、使用不可)

ENLARGED SECTION OSAKA, NAGOYA, AND TOKYO AREA CHART

フライト シミュレータII専用空路図。実際の飛行には使用できません。



AIRPORT	NORTH	EAST	ALT.	F (Fuel)	ILS (Rwy/freq.)	
Atsugi 厚 木 Hyakuri 百 里 Iruma 入 間 New Tokyo Intl. (Narita) 新東京国際空港(成田)	18118 18542 18262 18375	32707 32874 32619 32940	205 104 299 139	*	1/111.3 16/111.1 34/111.9	North and east coordinates are canted at + 26° (clock wise) to compensate for orthogonal coordinate grid overlaid on Lambert conformal conic projection.
Shimofusa 下 総 Tokyo Intl. (Haneda) 東京国際空港(羽田) Yokota 横 田	18334 18201 18217	32819 32787 32618	98 12 457	*	18/109.1 33/110.9 36/109.7	表の北緯、東経座標の数字はランバート直角円鎖 法地図のグリッドにあわせるため、時計と逆方向 に+26*修正してある。(実際の飛行には、使用不可)

Introduction to "Western European Tour" Scenery Disk

Scenery Disk Design and Tool Development by Michael Woodley Scenery Design by Loren Kirkwood

Maps by Michelle Maase & Ken Ruminski

"Western European Tour" includes the airports, radio nav-aids, and scenery details for large portions of Great Britain, France, and West Germany. Several airports (and a few surprises) can also be found outside the three main detailed scenery areas, along with additional radio transmitters provided to aid in longrange havigation and cross-country flight. This Scenery Disk has enough generic cross-country scenery and highly-detailed (sight-seeing) scenery areas to keep you flying for a long time. The scenery was developed using the same documentation that pilots would use to navigate these areas. The following notes and recommendations will help you to explore these new scenery areas

Southern Great Britain

Detailed airports include Bournemouth, Cardiff, Heathrew (Lendon), Luton, and Norwich

City of Interest: London

Parliament **TRABBAL** 13743E

Westminster Abiggy

Tower Bridge 18661N 13759E

Tower of Lordon Buckingham Palsce

18560N 13742É Hyde Park with Sappentine Fond

Post Office Tower St. Paul's Cathedral City lights at dusk and night

Thames Bivor

Stonehenge Site 18570N Chalk Figures (prehistoric and recent) Whiosnade Lion 18817N

Ultinaton White Horse 18743N Westbury White Harse 18633N 18385N

Long Man of Wilmington Lighthouse beacons along South England coast

132455

13657E

13369E

13209E 13788E

Note to 68000 FS2 Users. After loading the Arari ST/Amicia Flight Simulator III (or Macintosh Microsoft Flight Simulator) program, you start out on Oakland Runway 27R, When you log-in the "Western European Tour" Scenery Disk you will automatically be transported to Heathrow Airport in London. You may return to Heathrow any time after this by selecting the prerecorded situation for Oakland 27R from the SITUATION menu Northern France

Detailed airports incude Caen, Le Touquet, Lille, and Charles de Gaulle (Paris).

City of Interest: Paris Arc de Triomphe 17437N 14254F

Sacre Coeur Cathedral 17441N 14260E Montmartre Hill Fiffal Tower 14254E 17430N

Tour Montpamasse 17423N 14261E Concorde Obelisk 17433N 14261E Louvre Museum 17430N 14266F Notre Dame Cathedral 17426N 14269E lie St. Louis (island in the river)

Snine River City lights at dusk and night Bois de Boulogne (park) Bois de Vincennes (nark) Jardin du Luxembourg (park) Place des Invalides (park)

Champ de Mars (park) Pere Lachaise Cemetery

Southern West Germany

Detailed airports include Frankfurt and Neubiberg.

City of Interest: Munich

Olympiaturm Tower 17028N

16832E Olympic Grounds (park)

Hauotbahnhof 17015N 16835E

Frauenkirche

16839E 17014N

Residenz 17015N 16841E

Dautsches Museum 17011N 16842E

Isar River with islands Theresienwiese beer garden (park)

Hofgarten (park)				
City of Interest, Numberg Fernmeldeturm Tower Pegnitz River with parks		17553N	16676E	
City of Interest Stuttgart Fernsehturm Tower Schlossgarten (park) Two adjacent mountains	-	17269N	16172E	
City of Interest: Frankfurt Fernmeldeturm Tower Palmengarten (park)		17854N	16030E	
Opera House		17845N	16034E	
Cathedral Skyline buildings Zoologischer Garten (park)	-	17841N	16040€	

Three mountains (northwest of city)
City of Interest: Strasbourg, France
Rhein River and canels
Jurdin Botanique (park)
Orangene (park)
Three mountains (southwest of city)

Englishes Cartes (nad)

Europe

Included is a map of Europe that shows the radio aids located outside of the three main detailed scenery areas. Use these radio aids to navigate between areas.

Several additional Europe scenery details are also available. Helsinki (Finland) Airport is located at:

22508N 19462F

This airport includes refueling facilities

The city of Moscowis alto accurately located medie Russia. While we could have seted the exact city coordinates, we thought it might be more interesting for you to try and locate Moscow for yourself (see following). The adjusted bubbles the Kremlin Wall and park. "Red Square", several other people, 1998, 1998, 1998, per parall sizes. Numberg to Helsinki It s just possible to fly from Numberg, West Germany to Helsinki, Finland with a full load of fuel. Start out at Numbero Airport.

17586N 16691F

Take off and turn to a heading of 38 degrees. Level out at 5,000 feet, then cut your airspeed to 120 knots to conserve fuel. Your magnetic compass heading will tend to drift as you fiv east, so be sure to keep yourself on a constant 36degree heading. Also, make sure to keep your airspeed at or below 120 knots. If you fly any faster than this, you will probably run out of fuel and splash into the Baltic Sea before reaching Finland!

Keep your eyes open and start scanning the horizon for Helsinki Airport as soon as you cross over into Finland. The airport is approximately 20 minutes inland from the coast and is the only scenery detail in the entire country, so it should be relatively easy to locate if you fly anywhere near it. With any luck you should be able to find and land at Helsinki Airport with about twenty minutes of fuel left in your tanks

The flight from Numberg to Helsink-takes about six hours at 120 knots, gear up. flans off, at an altitude of 5,000 feet.

Your success in flying nonstop from Numberg all the way to Helsiniu, Finland on a single tank of fuel has won you much notoriety, and strengthened your resolve to attempt an even greater feat, a secret, unauthorized solo flight from Helsink

to Moscow, deep in the Russian heartland. After refueling your aircraft, you find yourself sitting on the runway and cleared

for takeoff from Halsinki Airport at coordinates: 22508N 19462F

Helsinki to Moscow

Take off and turn to a heading of 130 degrees. No radio nav-aid information is available for this flight, but you've determined that if you stay on this heading you should come near enough to Moscow for you to see and identify it visually. Your

magnetic compass will tend to fluctuate as you fly from west to east, so make sure you maintain a 130-degree heading.

The flight from Helsinki to Moscow should take about three and one half hours.

at 135 knots, genr up, flaps off, at an attrude of 5,000 feet.

You've landed your airplane in a remote area of western Russia: 21739N 22124E

Find Moscow's Red Square (the Easy Way)

and have taken some time to relax and wander the countryside. Presently you

5.000 feet. Good luck!

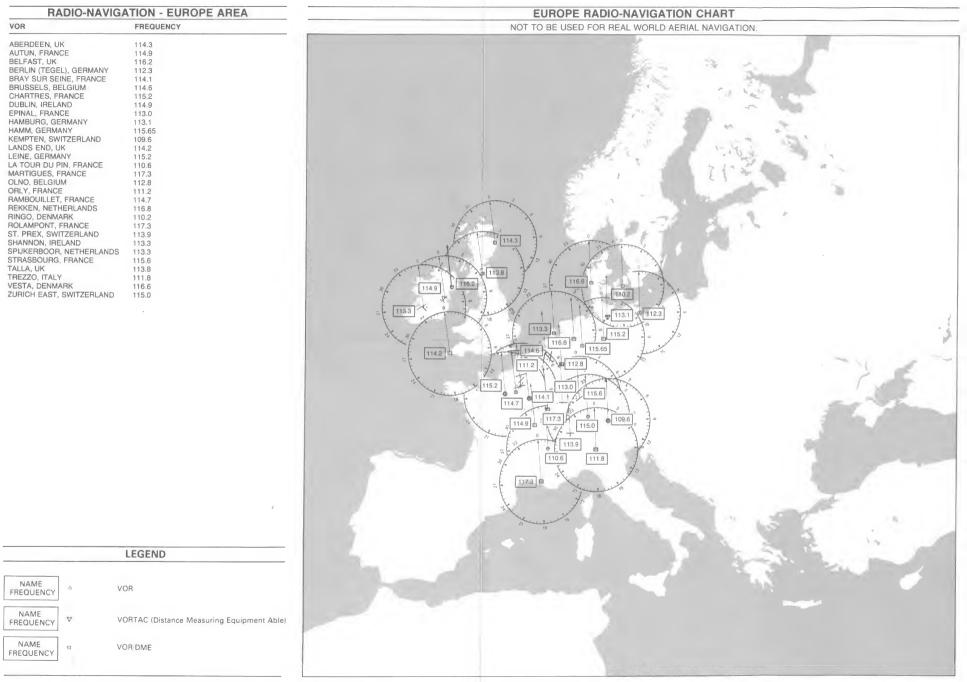
the Kremin

visit them. They also suppost that perhaps you could land in Red Square near Neither you nor they have any radio nav-aid information, but they tell you that If you take off and follow a southeast heading you should be able to soot the city on the horizon in a matter of minutes. You thank them for their hospitality and climb back into your plane to depart. The trip to Moscow from this location should take about 45 minutes at 130 knots, gear up, flaps off, at an altitude of about

arrive at a nearby village, where the friendly townslolk inform you that you are very near Moscow and, of course, you shouldn't pass up this opportunity to see the nation's capital. The villagers assure you that the people of Moscow are very friendly and will warmly welcome someone who has made such a long flight to

Above all else, explore! A lot of work went into this project. We hope that you enjoy the results as much as we do!

Special thanks to Dave Robins and British Airways AERAD for providing documentation used in the development of this Scenery Disk.



Abbeville (VOR) 17997N 14192E frext II66 Abbeville

alt. 230 RWY 3 21 5247 X 163

Amiens

17996N 14192E

17862N 14333E

RWY 12-30 4132 X 85

3627 X 150

NORTHERN FRANCE - 1





Autus, France (VOR) 16519N 14723E freq. II49 Beauvais

alt. 197



RWY 5-23

2 - NORTHERN FRANCE

NORTHERN FRANCE - 3

Berek-Sur-Mer 18127N 14142E alt. 30

RWY 624 2981 X 196 RWY 18-36

1967 X 196

Bernay / St. Martin

17598N 13736E alt. 551

RWY 10-28

3017 X 327 2787 X 327 RWY 17-35



Berry Head (VOR)

18339N 12NME freq 1127

Boulogne (VOR) 1820 AN 343 AUE freq

Bray air Schot, France (VOR)

17205N 14519E

Scerp. 114.1

113.8



alt. 269 RWY 5-23 9839 X 327

RWY 12-30

IR233N 14929E

Brussels, Belgium (VOR)

freq. 114.6 5739 X 196

5431 X 150 3870 X 98



Caen (F)

17673N 13497E alt. 256

RWY 13-31 RWY 6-24



Cien (VOR)

17657N 13550E 115.4 freq.



18348N 14272E plt. 10



Chartres (VOR) freq.

Chartres 17285N 140HE alt. 508

RWY 10-28

Chatillon (VOR)

17509N freq.

Cherhourg 17927N 13245F

alt. 456 RWY 11-29

Costa, Belgium (VOR) 18445N 14641E 111.8 frou

14/3IE

8003 X 150

2755 X 150

RWY 12-30

Coulommiers (VOR)

freq.

Deauville (VOR)

Denuville

17397N 14458E

17699N 13721E freq. 110.2

17730N LG680E alt. 479

Detling (VOR) 18555N fren.

freq.

fron 1158

Dieppe (VOR) 12930N 13921E 117.3

Diekirch, Luxembourg (VOR) 17759N 15339E 114.4

6887 X 150

13974P

6 - NORTHERN FRANCE NORTHERN FRANCE - 7 Dieppe Lands end (VOR) 17915N 13930E 18341N 12224E alt. 344 114.2 freq. RWY 13-31 2689 X 196 Le Havre 17804N 13672E alt. 312 Diver (VOR) RWY 5-23 6887 X 131 18474N 14110E freq. 114.95





RWY 3-21 Evreus (VOR) 17542N 13959E



ondwood (VOE)	1816SN 1415
18415N frou	13546F: 114.75	alt. 36 RWY 14-32
noq	129,73	RWY 7-25

Hamm, Germany (VOR)

158 XHz 115.65 freq.



4624 X 98





Liffe (F) 18138N 14562F alt. 157

London (VOR)

8 - NORTHERN FRANCE

RWY 8-26

RWY 2-20

9269 X 150 4263 X 98

1895SN 13657E freq 1136

Lydd (YOR) 1842IN 13979E

114,05 freq.

Mantes (VOR) 17508N 14032E freq.

Midburst (VOR) 13993E

freq

Montdidier (VOR)

free.

14344E 1136

freu. Orly (VOR) 17368N freq.

14270E

15245E

1859TIN 13651E freq. 115.3

Nicky, Belgium (VOR) 18346N 14855E 117.4

1125

109.4 Monts d'Arree, France (VOR)

Montmedy, France (VOR)

freq.

freq.

Otno, Belgium (VOR)

19065N

Ockham (VOR)

12529N 15052E

17445N 12597E freq.

NORTHERN FRANCE - 9

118g0 X 150 RWY 10-28 Paris, Le Rourget 1747IN 14299E alt. 216

1807 X 150

alt 387

Pontoise (VOR)

Rambouillet (VOR)

12540N 14195E freq.

17352N 14157E

free 114.7

RWY 9-27

RWY 7/25 8000 X 150 6999 X 150 3503 X 131













Rouert



Southampton (VOR) 18346N 13770E

freq.

front

Strasbourg (VOR) 17172N 15717E

fres.

Rolampont, France (VOR)

16953N LWAST. freq. 1173

17697N 13970E oh. SIS

RWY 5-23







































Tout	sus-Le -Noble	
	17300N 14194E alt. 538	
	RWY 8-26 RWY 8-26	3607 X 98 3443 X 98

AIRPOR	T DIREC	TORY - NORT	HERN	FRANCE	_	ENLARGED SECTION NORTHERN FRANCE AREA CHART
CITY	AIRPORT	NORTH	EAST	ALT. F I	LS y Freq)	NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Abbeville Amiens Beauvais Bearck-Sur-Mer Bernay Berleigny Calais Chartres Cherbourg Deauville Dieppe Le Havre Le Mans Le Touquet Lille Paris ATIS Paris Rouen Toussus-Le-Noble	Le Bourget Orly Boos	17598 17316 17673 18348 17285 17927 17730 17915 17804 17125 18165 18185 18185 18490 28.00	14333 14235 14142 13776 14253 13497 14252 14011 13245 13680 13970 14562 14361 14592 14361 14299 14266 13970	197 358 30 551 269 256 10 508 456 479 344 312 194 36 157 387 28	09.1	SOUTHAMPTON 113.35 GOODWOOD 114.75 SEAFORD 117.0 BOULOGNE 113.8 BRUSSELS BELGIUM 114.6 BRUSSELS BELGIUM 114.6 BRUSSELS BELGIUM 114.6 BRUSSELS BELGIUM 114.6
Nautical Miles 0 Statute Miles 0 Kilometers 0 Kilometers - 5° (corporational coort	10 20 20 1 crdinates are calcolockwise) to odinate grid ove	40 · 60 8	50 50 3 90 10	0		CHERBOURG MAUPERTUS LE HAVRE/OCTEVILLE DEAUVILLE/ST, GATIEN DEA
		LEGEND				BERNAY ST. MARTIN
0 0 th		Civil-Public use air	port			
8		Restricted Private-I				MANTES PARISLE BOURGET
SANTA MONICA ATIS 119.15 175-50		Airport Name Advisory Frequence Elevation (feet) —	y (if avai	lable)	et)	TOUSSUS-LE-NOBLE ORLY 117.6 RAMBOUILLET 114.7 PARIS-ORLY 70
NAME FREQUENCY	ė	VOR				CHARTRES
NAME FREQUENCY	Ø	VORTAC (Distance	Measuri	ng Equipment	Able)	CHARTRES/CHAMPHOL
NAME FREQUENCY	Ö	VOR:DME				LE MANS:ARNAGE BRAY SUR SEINE 114.1
NAME FREQUENCY	0	Non Directional Be	acon			The second of th
VOR/DME_ NAME FREQUENCY		If VOR falls directly of symbol will be show shown at the top of the shown at the top of the	yn. The VI			

17466N 6733E freq. III.2

SOUTHERN WEST GERMANY - 1

4198 X 98

4198 X 98

3279 X 98

Augsburg Mulhausen 17B2N 16657E

Allershery (VOR)

oft, 1512

RWY 7-25

Baden-Baden/Ous 17289N 15893E

alt. 403

RWY 4-22 RWY 4-22

Bayreenth (VOR)

17795N 16838E frext. IIIL6

Berlin (Tegel), Germany (VOR)

18893N 17217E

freu. II23

Brussels Belgium (VOR)

18239N 14929E frex. 114.6

114.4 Dinkelsbuhl (VOR) 17433N 16463F freq.

2 - SOUTHERN WEST GERMANY

Donaueschingen/Villingen

alt. 384

Epinal, France (VOR) 17118N 1525HE freq

RWY 927

Frankfart (VOR) 4231 X 65

Freistadt, Austria (VOR)

Egelihach 17779N 16028E

2951 X 85

16943N 15960E alt. 2227 RWY 18-36

Frankfurt (F)

17803N 15997F alt. 364 RWY 7-25 RWY 7-25

1780KN

17176N 17541E

frou.

13119 X 196 13119 X 150 RWY 19-36

114.2 frea.

13119 X 150

1602715

SOUTHERN WEST GERMANY - 3





4 - SOUTHERN WEST GERMANY Friedrichshafen 16813N 16258E alt. 1364 RWY 6-24

Hamm, Germany (VOR) 18598N ISSUDE:

Karlesruhe

115.65 freq.

30L5 X 98

2623 X 98

17368N L5935E

alt. 380

RWY 3-21

RWY 3-21

Karlsruhe (VOR) 17370N 16006E

Kempten (VOR) 168415 16496E

Kitzingen (VOR) 17686N 16451E 1114 frea

frog. 115.95

Freq. 1093.6



La Tour du Pin, France (VOR) 15923N 15034E freq. 110.6

SOUTHERN WEST GERMANY - 5











17579N

DESN In933E freq. 112.3

Munich (VOR)

















Montmedy, France (VOR) 15052E

109.4 freq.

6 - SOUTHERN WEST GERMANY

17016N 16876E alt. 1738

RWY 7-25

SOUTHERN WEST GERMANY - 7



Neuhiberg (F)

Munich



16589N 168581



alt. 1046 RWY 10-28





17586N 16691E



9197 X 196

8103 N 91







18727N freq. Roding (VOR)

17403N 1309SE freq. 114.7 Rolampont, France (VOR) 16953N 1,9048E 117.3 freq.

Rekken, Netherlands (VOR)

15552F:

116.8

Spijkerboor, Netherlands (VOR) 18913N 15060E freq 113.3

St. Prex. Switzerland (VOR) 1633UN 15355E freq. Strasbourg (VOR)

17172N 15717E freq. 115.6

8 - SOUTHERN WEST GERMANY Strasbourg 17188N 15734E. alt. 502 RWY 5-23 7871 X 150 Shutteart 1724IN 16176E alt. T299 RWY 8-26 8363 X 163 Tango (VOR) 17214N 16189E freu. 1125 Trezzo, Italy (VOR) 15912N 1624RE

15912N 16248E freq 111.8

> 16770N 16051E freq. 115

T/LISN 1806/E freq IIL4

Zurich East, Switzerland (VOR)

AIRPORT D	IRECTORY - SOUTHER	RN WEST GERMANY	ENLARGED SECTION SOUTHERN WEST GERMANY AREA CHART
CITY	AIRPORT NORT	H EAST ALT. F ILS	NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Augsburg Baden Donaueschingen Egelsbach Frankfurt Friedrichshafen Karlesruhe Mannheim Munich Munich Nurnberg Strasbourg Stuttgart	Mulhausen 1713 Baden-Baden/Cos 1728 Villingen 1694 Egelsbach 1777 Main 1780 Friedrichshafen 1681 Forchheim 1736 Neuostheim 1757 Munich 1701 Neubiberg 1698 Numberg 1758 Entzheim 1718 Stuttgart 1724	32 16657 1512 39 15893 403 43 15980 2227 79 16028 384 33 15997 384 - 25L/110.7 33 16258 1364 38 15935 380 72 15993 308 16 16876 1738 99 16859 1811 - 168691 1046 18 15734 502	
less than 3° (cloc	10 20 30 40 50 20 40 60 80 ordinates are canted at skwise) to compensate rdinate grid overlaid on	100	FRANKFURT 114.2 BAYREUTH 110.6
	LEGEND		KITZINGEN 6 ERLANGEN
800	Civil-Public use air	rport	NURNBERG 117.4
14;	Restricted/Private-	Nonpublic use airport, y use or landmark value	NEUOSTHEIM
SANTA MONICA ATIS 119.15 175-50	Airport Name Advisory Frequen		KARLSRUHE 115.96 ALLERSBERG 111.2
NAME FREQUENCY	o VOR		FORCHEIM LUBURG 109.2 DINKELSBUHL 117.8 RODING 114.7
NAME FREQUENCY	♥ VORTAC [Distance	e Measuring Equipment Able)	BADENBADENIOOS
NAME FREQUENCY	9 VOR'DME		STUTTGART 6 TANGO 112.5
NAME FREQUENCY	O Non Directional Be	eacon	STRASBOURG 115.6 MULHAUSEN PERDING 113.6
VOR DME NAME FREQUENCY		on an airport, only the airport wn. The VOR facility type is the box.	MUNICH NEUBIBERG 112.3

SOUTHERN UNITED KINGDOM - 1 Abbeville (VOR)

2742 X 72

freu 1166 Belfast, UK (VOR)

20117N 12537E freq. 1162

17997N I4192E

Bembridge 18356N 13445E

alt. 56 RWY 12-30

Berry Head (VOR)

18330N 12804F freq. B27

Birmingham Intl 19190N 13389E

alt 325

Bouloene (VOR)

RWY 6-24

RWY 15-33 7399 X 150 4316 X 150

IRD3N 14240E

free II38

Bournemouth (Flurn) (F) 18426N 1326IE alt. 36

Bovington (VOR)

RWY 8-26 6028 X 150 RWY 17-35 4941 X 150

2 - SOUTHERN UNITED KINGDOM

13649E

113.75 Breenn (VOR) 1887IN

freq. Bristol Airport

1876/N

freq.

18709N 13074E alt. 620

RWY 9-27 RWY 15-33

Brussels, Belgium (VOR)

freq 114.6 Cambrai (VOR) 1796717

18233N 14929E

149925 217.6 freq.

12957E 117.45

6592 X 150

3307 X 150



Cambridge 19940N 13857F alt. 49 RWY 6-24

Cardiff (F)

18743N 12912E alt. 230 RWY 12-30

RWY 3-21 Clacton (VOR)

18763N 14086E 114,55

fron. Compton (VOR)

18994N freq 114.35

Costa, Belgium (VOR)

18145N 14641E freq. HLS

13463E

SOUTHERN UNITED KINGDOM - 3

6441 X 150

7721 X 150

3667 X 98

4 - SOUTHERN UNITED KINGDOM

5930 X 150 5989 X 150 2033 X 59

1891IN 13649E

alt. 364

RWY 4-22

RWY 8-26

RWY 18-36

Cranfield

Daventry (VOR) 18973N 1353ZE

Deauville (VOR)

Detling (VOR)

freq. 116.4

17699N 1372IE

18555N 1392HE

17759N 153398

17930N 1399SE

freq.

freq.

Dieppe (VOR)

Diekirch, Luxembourg (VOR)

114.4

frog.

freq. 110.2

SOUTHERN UNITED KINGDOM - 5

Daver (VOR) 18474N 14110E 114.95 freq.

6828 X 150

4395 X 150

Dublin, Ireland (VOR)

19689N 12334E freq. 114.9

Exeter

18475N 12846E. alt. 102

RWY 8-26 RWY 13-31

Gam (VOR)

1942IIN

alt 95

Goodwood (VOR)

RWY 18-36

RWY 9-27

RWY 4-22

freq.

13636E

1128

Gloucester / Cheltenham

18806N 13249F.

4/64 X 118 3188 X 131

13546E 18415N Frex. 114.75

Halfpenny Green 19155N 13264E

alt. 292

RWY 4-22 2099 X 72 2492 X 72 3863 X 72 RWY 10-28 RWY 16-34



Hamm, Germany (VOR)

18555N 1500.04: freq. 115.65

Heathrow (F)

18657N 13660E alt. 79

RWY 10-28

RWY 10-28 RWY 5-23

12798 X 150 11998 X 150 7734 X 150



Honiley (VOR)

19066N 13405F freq.

1129

Ipwich 18837N 14106E

alt. 128

RWY 8-36 3417 X 341 RWY 14-32 2984 X 301



18710N 13K23E frea.

Lands end (VOR)

115.6

1834IN 12224E

Lambourne (VOR)

freq. 114.2

London (VOR) 18669N

13657E 113.6 freq.

London - Gatwick 18517N 13709F

alt. 203

RWY 8-26 RWY 8-36

8416 X 150 10364 X 150

7064 X 150

2282 X 131

1285 X 85

Luton (F)

18822N 13703E

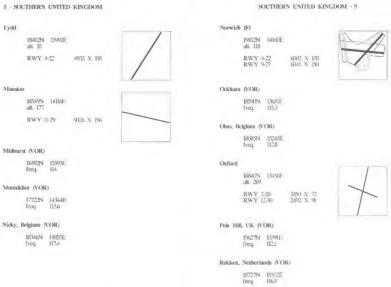
RWY 6-24

alt. 525 RWY 8-26 RWY 18-36

Lydd (VOR) fren.

1842IN 13979 114/05





10 - SOUTHERN UNITED KINGDOM

SOUTHERN UNITED KINGDOM - 11

Scaford (VOR) 18349N 1377BE 117 freq.

Stannon, Ireland (VOR) 19567N

11619E freq. 113.3

18391N T366611

18346N 13770E.

Shoreham

RWY 3-21

Southampine (VOR)

2702 X 59

Southwep(on

freq.

IB\$77N 13397E alt. 43

RWY 2-30 5648 X 113

Southend

18663N 13960E all, 49 RWY 624

RWY 15-33 Solikerboor, Netherlands (VOR)

> **IMJIBN** 150 KOE: 1133 freq.

5261 X 118 3712 X 91



Stu (VOR)

19066N 12529E 113.1 frequ

Talla, UK (VOR)

20408N B309E fron 113.8

AIRPORT DIR	RECTORY - SOUTHERN	UNITED KINGDOM	ENLARGED SECTION SOUTHERN UNITED KINGDOM AREA CHART
CITY A	IRPORT NORTH	EAST ALT. F ILS	NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION.
Birmingham Bir Bournemouth Hu Bristol Bri Cambridge Ca Cardiff Craffeld Cr Exeter Ex Gloucester Ch Halfpenny Green Ipswich London Ga London He ATIS Luton Lu Lydd Ly Manston Me Norwich Norwich Norwich Norwich Shoreham Sh Southampton So	rmingham Intl 19110 Jurn 18426 Istol Airport 18709 ambridge 18940 ardiff 18743 anfield 18911 teter 18475 letterham 18896 alfpenny Green 19155 swich 18837 athrow 18657 ton 18622 dd 18402 anston 18549 anston 18391 Juthampton 18477	13388 325 13261 36 1 13074 620 13857 49 12912 220 13649 364 12846 102 13249 95 13264 292 14108 128 13709 203 13660 79 10L/110. 13703 525 1 13992 10 14116 177 14160 118 1 13458 269 1 13666 7	GAMSTON 112.8 HALFPENNY GREEN HONILEY 112.9 GLOUCESTER/ CHELTENHAM CAMBRIDGE CAMBRIDGE LIPSWICH
Nautical Miles 0 Statute Miles 0 Kilometers 0 North and east coordin approximately – 8° (clo for orthogonal coordin. Lambert conformal cordinations)	ockwise) to compensate late grid overlaid on	J	OXFORD- KIDLINGTON BRECON 117.45 BRISTOL OCHAMM LONDON-HEATHROW OCKHAM 115.3 DETLING 117.3 BOUNNEMOUTH (HURN) SOUTHAMPTON SHOREHAM LYDD 114.05 SOUTHAMPTON SHOREHAM LYDD 114.05 SOUTHAMPTON SHOREHAM LYDD 114.05 114.05
ET O O			× ×
R	Civil-Public use airpo Restricted/Private-No having emergency us	onpublic use airport,	BEMBRIDGE GOODWOOD 117.0 BOULOGN
SANTA MONICA ATIS 119.15 175-50	Airport Name Advisory Frequency Elevation (feet) — Le	(if available) ength (hundreds of feet)	113,8 BERRY HEAD 112.7
NAME FREQUENCY ©	VOR		The state of the s
NAME FREQUENCY ♥	VORTAC (Distance M	leasuring Equipment Able	
NAME FREQUENCY	VOR/DME		
NAME FREQUENCY O	Non Directional Beac	con	
VOR/DME NAME		an airport, only the airport . The VOR facility type is	

PERSONNEL PROINT 1:529N 60862E

BARKING SANDS PAIRF 13695N

alt. 16

RWY 11-29 8410 X 200 RWY 4-22 8335 X 200 RWY 4-22 8335 X 200

60174F RWY 16-34 6010 X 150

BRADSHAW (BSF) (NDB) 12724N 61872F

DILLINGHAM 13496N alt. 16

freq. 339

60310E

RWY 8-26 9000 X 75

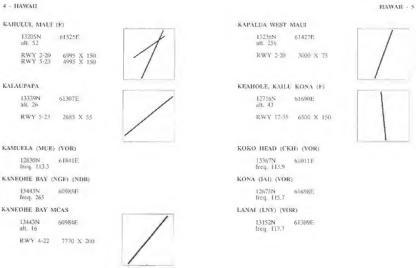
2 · HAWAII HAWAII + 3 III 23 FORD ISLAND ALF 13409N 60905E 13671N 6031SE alt. 16 alt. 479 RWY 4-22 4005 X 55 RWY 7-25 2000 X 75 GENERAL LYMAN FLD, HILO (E) HILO (ITO) (VOR) 12707N 62094E: 12711N 62112F alt. 39 freq. 116.9 RWY 8-26 9800 X 150 HONOKAA RWY 3-21 5605 X 150 12864N 61907E alt. 1440 HAIKU RWY 8-26 1800 X 75 13661N 60315E alt. 384 RWY 6-24 2400 X 75 MONOCULU (NING.) (NOR) CENTRY SURCES Prog. 1848 MONOMETO INTERIORINA 13165N 61694E 1335909 409) GP alt. 75 alf. 13

HANA RWY 8-26 3610 X 100 RWY 8:26 12360 X 150

RATE SAN

RWY 4-32

32000 X 200 9099 X 150 6959 X 350



HAWAH - 7 LANAL LANAL CITY MCGREGOR POINT (MPII) (NDB) 13162N 61318E

aft. 1309 RWY 3-21 5000 X L50

LIBUE (LIII) (VOR) 13671N 6035213 freq. 113.5 LIRUE, KAUAL (F)



RWY 3-21 6005 X 150 MAUL (OCC) (VOR) 13209N 61525E

RWY 17-35 6500 X 150

13673N

alt. 148

6 · HAWAII

freq. 114.3 MAUNA KEA HONOLII 12730N 62058E alt. 1401

RWY 7-25

1800 X 75

60349E

13157N 61487E freq. 355 MOLOKAL (MKK) (VOR)

13311N 61228E freq. 116.1

MOLOKAL 13317N 61254E alt. 453

MOTOR CLOSE VIDES

12630.4

alt. 1499

12634N

freq. 332

RWY 5-23

4495 X 100 3115 X 100

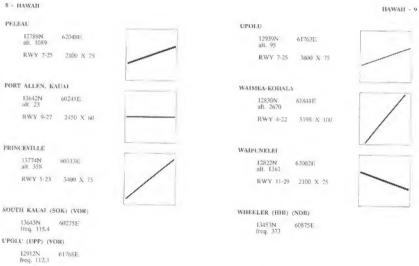
63076E

1800 X 75









AIRPU	AIRPORT DIRECTORY - HAWAII AREA CHART										
AIRPORT	ISLAND	NORTH	EAST	ALT	Fia	LILS	ATIS	VASI			
Barbers Point	Oahu	13384N	60862E	33							
Barking Sands PMRF	Kauai	13695N	60174E	16							
Dillingham	Oahu	13496N	60810E	16							
Ford Island ALF	Oahu	13409N	60905€	16							
General Lyman Fld	Hawari	12707N	62094E	39		110.70/26	126.4	8.26,3			
Haiku	Kauai	13661N	60315E	384							
Hana	Maui	13165N	61694E	75							
HI 23	Kauar	13671N	60318E	479							
Honokaa	Hawaii	12864N	61907E	1440							
Honolulu Inti	Oahu	13388N	60916E	13	•	109.50-BL	127.9	8R,26L,4L, 26R,4R,22I			
Kahului	Maur	13205N	61525E	52	+	110.10/2	128.8	2.20.5			
Kalaupapa	Molokai	13339N	61307E	26							
Kaneohoe Bay MCAS	Oahu	13443N	60984E	16							
Kapalua West Maul	Maui	13236N	61427E	16							
Keahole	Hawaii	12716N	61690E	43		109.70/17	127.4	17.35			
Lanai	Lanai	13162N	61318E	1309							
Lihue	Lihue, Kauai	13673N	60349E	148		110.90/35	127.2	17.35.3.21			
Mauna Kea Honolli	Hawaii	1.2730N	62058E	1401							
Molokai	Molokai	13317N	61254E	453			128.2				
Mountain View	Hawaii	12636N	62076E	1499							
Peleau	Hawaii	12789N	62048E	1089							
Port Allen, Kauai	Kauai	13642N	60245E	23							
Princeville	Kauai		60313E	358							
Upolu	Hawaii	12939N	61763E	95							

12830N 61841E 2670

12822N 62002E 1361

Waimea-Kohala

FREQUENCY

Waipuneler

Hawari

Hawari

HAWAII AREA CHART NOT TO BE USED FOR REAL WORLD AERIAL NAVIGATION. KAUAI DAHU WHEELER NIIHAU MOLOKAI SOUTH KAUAT (SOK MOLOKAL BARBERS POINT & HONOLULU (HNL) MAUL KOKO HEAD (CKH) MCGREGOR POINT (MPH) LANAL LANAF (LNY) KAHOOLAWE KASHUGLA (MUE) MAUNA KEA HOLNOLII OAHU SENERAL HAVAN FLD. HILL MOUNTAIN VIE KONA (KOA) HAWAII S.S. ARIZONA MEMORIAL HONOLULU INT'L AIRPORT BARBERS MAVAL HONOLULU HONOLULU (HNL) SAND ISLAND

HONOLULU HARBOR

DIAMOND HEAD CRATER

North and east coordinates align with

conformal conic projection."

orthogonal coordinate grid overlaid on Lambert

LEGEND Civil-Public use airport Restricted/Private-Nonpublic use airport, having emergency use or landmark value Rotating light in operation, sunset to sunrise SANTA MONICA Airport Name ATIS 119.15 Advisory Frequency (if available) 175-50 Elevation (feet) - Length (hundreds of feet) NAME VOR FREQUENCY NAME VORTAC (Distance Measuring Equipment Able) FREQUENCY NAME VOR/DME 0 FREQUENCY NAME Non Directional Beacon FREQUENCY _VOR/DME. If VOR falls directly on an airport, only the airport NAME symbol will be shown. The VOR facility type is

shown at the top of the box.